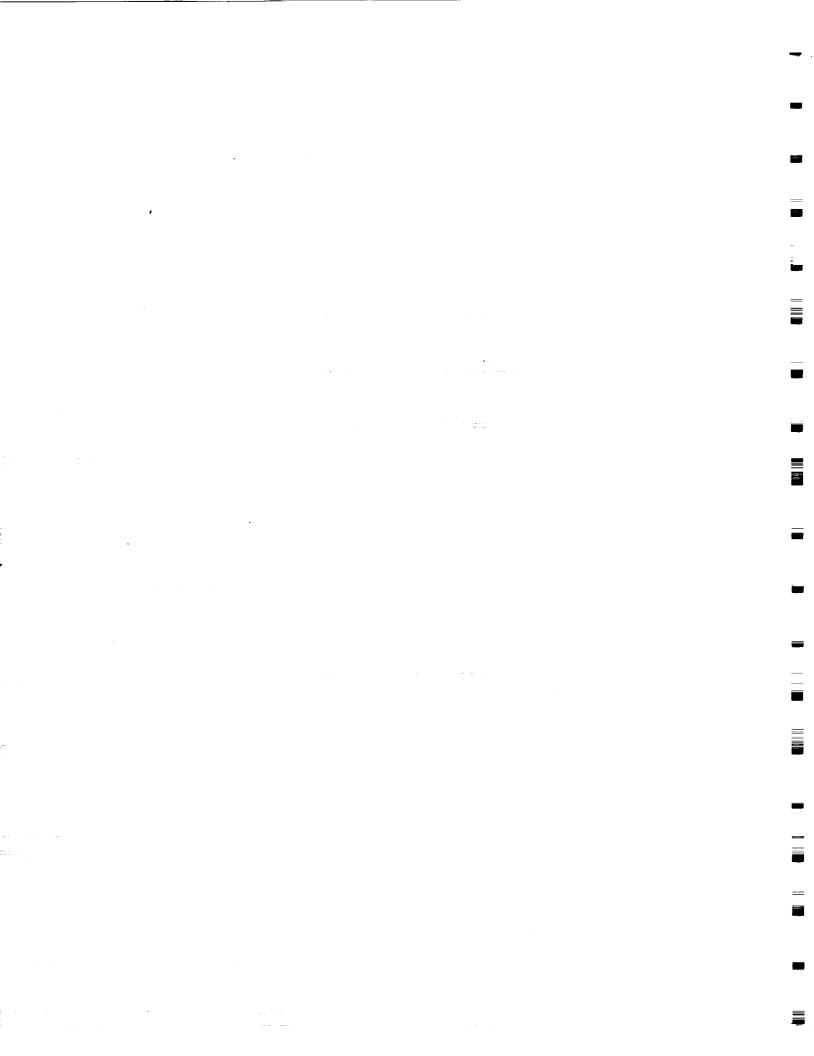
INDEPENDENT ORBITER ASSESSMENT

ASSESSMENT OF THE
ELECTRICAL POWER
DISTRIBUTION AND CONTROL
SUBSYSTEM
VOLUME 1 OF 3

26 FEBRUARY 1988



MCDONNELL DOUGLAS ASTRONAUTICS COMPANY HOUSTON DIVISION

SPACE TRANSPORTATION SYSTEM ENGINEERING AND OPERATIONS SUPPORT

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INDEPENDENT ORBITER ASSESSMENT
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AND CONTROL SUBSYSTEM

26 FEBRUARY 1988

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Independent Orbiter Assessment Assessment of the EPD&C FMEA/CIL

1.0 EXECUTIVE SUMMARY

The McDonnell Douglas Astronautics Company (MDAC) was selected in June 1986 to perform an Independent Orbiter Assessment (IOA) of the Failure Modes and Effects Analysis (FMEA) and Critical Items List (CIL). Direction was given by the STS Orbiter and GFE Projects Office to perform the hardware analysis using the instructions and ground rules defined in NSTS 22206, Instructions for Preparation of FMEA and CIL, 10 October 1986.

The IOA first completed an analysis of the Electrical Power Distribution and Control (EPD&C) hardware, generating draft failure modes and potential critical items. To preserve independence, this analysis was accomplished without reliance upon the results contained within the NASA FMEA/CIL documentation. The IOA results were then compared to the NASA FMEA/CIL baseline with proposed Post 51-L updates included. A resolution of each discrepancy from the comparison is provided through additional analysis as required. This report documents the results of that comparison for the Orbiter EPD&C hardware.

The IOA product for the EPD&C analysis consisted of one thousand six hundred and seventy-one (1671) failure mode analysis "worksheets" that resulted in four hundred and sixty-eight (468) potential critical items being identified. Comparison was made to the proposed NASA Post 51-L baseline (as of 31 December 1987) which consisted of four hundred and thirty-five (435) FMEAs and one hundred and fifty-eight (158) CIL items. Differences between the number of IOA worksheets and NASA FMEAs resulted from different levels of analysis (e.g. grouping components into one FMEA versus a worksheet for each component), failure modes not being identified within the original analysis, and the fact that two different schematic sets were used (NASA used Rockwell International assembly drawings and IOA used the Rockwell International integrated schematics). Figure 1 presents a comparison of the proposed Post 51-L NASA baseline, with the IOA recommended baseline.

The issues arose due to differences between the NASA and IOA interpretation of the FMEA/CIL preparation instructions, definitions of screen detectability, and some ignorance of flight procedures on the part of IOA. After comparison, there were no discrepancies found that were not already identified by NASA, and the remaining issues are the result of the differences in the schematics used by the NASA and IOA.

AMCA	10A	FMEA 6 6 0	CIL 3 3 0	FPCA	IOA NASA ISSUES	FMEA 24 24 0	CIL 7 7 0	FLCA	IOA NASA ISSUES	FMEA 32 32 0	CIL 7 7 0	FMCA	IOA NASA ISSUES	FMEA 3 3 0	CIL 0 0 0	AGDA	IOA NASA ISSUES	FMEA 23 23 0	CIL 4 4 0	FDPC&D	IOA NASA ISSUES	FMEA 109 109 0	37	MISC	IOA NASA ISSUES		7
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EPD&C	A ISSUES	0 FMEA 435	0 CIL 158	MPCA	NASA ISSUES	44 0	0 9	MMCA	NASA ISSUES		16 0	CA 4-6		,		1CA 1-3	NASA ISSUES	16 0	5 0	ALCA	NASA ISSUES	12 0	0 9		NASA ISSUES		
MDDA EPD&C ASSESSMEN	A ISSUES	57 0 FMEA 435	27 27 0 CIL 158	MPCA				MMCA			16 16	APCA 4 - 6	ISSUES		0	APCA 1-3		FMEA 16 16 0	5 5 0	ALCA			0 9 9	MDPC&D		FMEA 44 44 0	

Figure 1 - ELECTRICAL POWER DISTRIBUTION & CONTROL FMEA/CIL ASSESSMENT

2.0 INTRODUCTION

2.1 Purpose

The 51-L Challenger accident prompted the NASA to readdress safety policies, concepts, and rationale being used in the National Space Transportation System (NSTS). The NSTS Office has undertaken the task of reevaluating the FMEA/CIL for the Space Shuttle design. The MDAC is providing an independent assessment of the proposed Post 51-L Orbiter FMEA/CIL for completeness and technical accuracy.

2.2 Scope

The scope of the independent FMEA/CIL assessment activity encompasses those Shuttle Orbiter subsystems and GFE hardware identified in the Space Shuttle Independent FMEA/CIL Assessment Contractor Statement of Work. Each subsystem analysis addresses hardware, functions, internal and external interfaces, and operational requirements for all mission phases.

2.3 Analysis Approach

The independent analysis approach is a top-down analysis utilizing as-built drawings to breakdown the respective subsystem into components and low-level hardware items. Each hardware item is evaluated for failure mode, effects, and criticality. These data are documented in the respective subsystem analysis report, and are used to assess the proposed Post 51-L NASA and Prime Contractor FMEA/CIL. The IOA analysis approach is summarized in the following Steps 1.0 through 3.0. Step 4.0 summarizes the assessment of the NASA and Prime Contractor FMEA/CIL which is documented in this report.

- Step 1.0 Subsystem Familiarization
 - 1.1 Define subsystem functions
 - 1.2 Define subsystem components
- 1.3 Define subsystem specific ground rules and assumptions
 - Step 2.0 Define subsystem analysis diagram
 - 2.1 Define subsystem
 - 2.2 Define major assemblies
 - 2.3 Develop detailed subsystem representations
 - Step 3.0 Failure events definition
 - 3.1 Construct matrix of failure modes
 - 3.2 Document IOA analysis results

- Step 4.0 Compare IOA analysis data to NASA FMEA/CIL
 - 4.1 Resolve differences
 - 4.2 Review in-house
 - 4.3 Document assessment issues
 - 4.4 Forward findings to Project Manager

2.4 Ground Rules and Assumptions

The ground rules and assumptions used in the IOA are defined in Appendix B.

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3.0 SUBSYSTEM DESCRIPTION

3.1 Design and Function

The EPD&C subsystem starts at the outputs of the three fuel cells in the EPG subsystem and ends at the using subsystems. DC power from each fuel cell is routed through two wires to one of three main and one of three essential busses. Each main bus can be tied to either of the other two main busses through power contactors and each essential bus is also connected to the other two main busses through diodes and Remote Power Controllers (RPCs). Nine control busses are connected to the three main busses through diodes and RPCs with each control bus receiving power from two main busses. A control bus can be connected to the remaining main bus when the appropriate circuit breaker is Each one of three Orbital Maneuvering Subsystem/Reaction Control Subsystem (OMS/RCS) DC busses are powered by two of three main busses through RPCs and diodes. Three DC busses to the payload (Payload Cabin, Payload Aux, and Payload Emergency busses) are powered through RPCs and diodes from Main DC busses A Larger payload DC loads are powered through power contactors from Main DC busses B and C and Fuel Cell #3.

AC power is generated by connecting each main DC bus to three of nine single-phase invertors, resulting in three three-phase AC busses. The three AC busses are connected to various loads through circuit breakers. These AC busses are further connected to three RCS/OMS AC busses, three Payload Bay Door (PLBD) AC busses, and three Payload Bay Mechanical (PLBM) AC busses.

3.2 Assemblies Description

The EPD&C hardware performs the functions of distributing, sensing, and controlling DC power and inverting, distributing, sensing, and controlling AC power throughout the Orbiter. The EPD&C subsystem is broken down and described by the following fourteen assembly types:

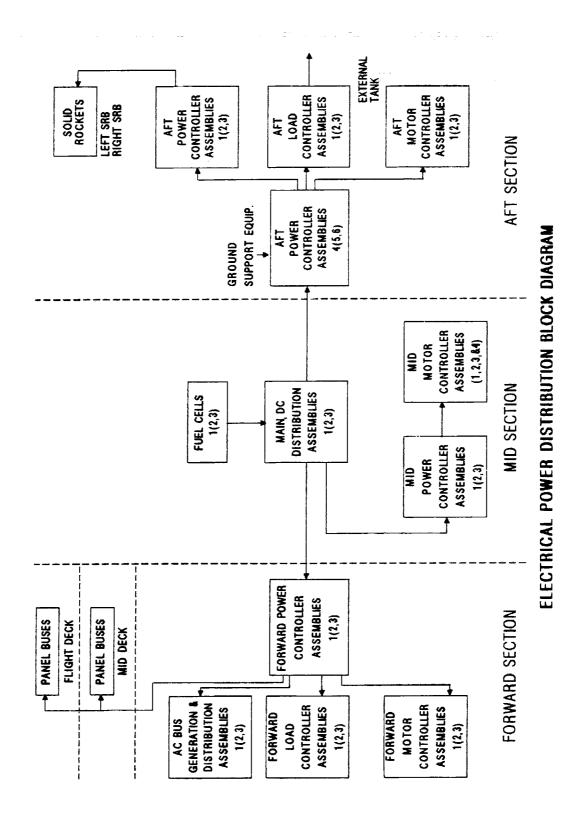
1. Three (3) Main DC Distribution Assemblies (MDDAs) connect the fuel cell outputs through power contactors to the three main DC busses and through diodes and fuses via Panel R1A1 to the three essential busses. Power contactors on the MDDAs allow tying the main busses together. Bus voltage and current levels can be measured directly on Panel F9A2 meters or observed indirectly via General Purpose Computer (GPC) output display via signal conditioners and Multiplexer/Demultiplexers (MDMs). Main and essential DC bus power is connected through fuses to the other assemblies in the system.

- 2. Three (3) Mid Power Control Assemblies (MPCAs) contain RPCs to connect main DC bus power to MMCAs, Payload busses (Cabin, Aux, and Emergency), and to essential busses. There are also RPCs which connect Pre-Flight Test Busses to MDDAs which allow Ground Support Equipment (GSE) control and monitor of fuel cells and main DC bus ties.
- 3. Four (4) Mid Motor Control Assemblies (MMCAs) contain relays to connect the three PLBM and three PLBD AC busses to the three main AC busses. DC power is also routed to the Payload Bay motors and relays.
- 4. Three (3) Aft Power Control Assemblies (APCA-4, APCA-5, and APCA-6) contain RPCs that connect power to the three RCS/OMS DC busses, AMCAs, essential busses, and control GSE power to the MMDAs. GSE power is distributed from these assemblies through power contactors. DC power is also routed through fused connections to the ALCAs and the other three APCAs.
- 5. Three (3) Aft Power Control Assemblies (APCA-1, APCA-2, and APCA-3) contain RPCs that power Master Event Controllers #1 and #2. Fused DC power to the Payload Bay is routed through these assemblies also.
- 6. Three (3) Aft Load Control Assemblies (ALCAs) connect Main DC Bus power to various subsystems. They also contain Hybrid Device Controllers to connect GSE power to the essential busses.
- 7. Three (3) Aft Motor Control Assemblies (AMCAs) connect Main DC Bus power through diodes to the three RCS/OMS DC busses. They also contain the origin of the RCS/OMS AC busses.
- 8. Three (3) Forward Power Control Assemblies (FPCAs) contain the circuitry to connect the three main DC busses to the nine control busses. DC power is provided to the AC inverters through fuses and latching relays, RPCs are used to control DC power to FMCAs and fused DC power is provided to the FLCAs.
- 9. Three (3) Forward Load Control Assemblies (FLCAs) contain Hybrid Device Controllers to control the nine AC inverters and to allow GSE control of the same inverters.
- 10. Three (3) Forward Motor Control Assemblies (FMCAs) route AC and DC power to various subsystems.
- 11. Three (3) AC Generation & Distribution Assemblies (AGDAs) provide control and power circuits to the nine AC inverters. Over/under voltage sensors allow inverters to be monitored and disconnected from the AC Bus system.

- 12. The Flight Deck Panel Controls and Displays (FDPC&D) perform the switching and certain monitoring functions for the routing of power to all subsystems. These panels include L4, R13, R15, R1, R2, 013, 014, 015, 016, 017, 019, F9, F1, F6, C3, A11, A12, A15, and A6.
- 13. The Mid Deck Panel Controls and Displays (MDPC&D) perform the switching and monitoring functions for power to the inverters and various subsystems. These panels include M030F, M052J, M013Q, and MA73C.
- 14. The Master Event Controllers #1 and #2, certain channels in the Annunciator Control Assemblies, and Current Sensors are grouped in this last category for convenience.

3.3 Hierarchy

Figure 2 illustrates the hierarchy of the EPD&C hardware and the corresponding subassemblies.



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Figure 2 - ELECTRICAL POWER DISTRIBUTION & CONTROL SUBSYSTEM OVERVIEW

4.0 ASSESSMENT RESULTS

The IOA analysis of the EPD&C hardware initially generated one thousand six hundred and seventy-one (1671) failure mode analysis worksheets and identified four hundred and sixty-eight (468) Potential Critical Items (PCIs) before starting the assessment process. In order to facilitate comparison, one hundred and eighty-four (184) additional failure mode analysis worksheets were generated. These analysis results were compared to the proposed NASA Post 51-L baseline of four hundred and thirty-five (435) FMEAs and one hundred and fifty-eight (158) CIL items, as of 31 December 1987. Differences between the number of IOA worksheets and NASA FMEAs resulted from different levels of analysis (e.g. grouping components into one FMEA versus a worksheet for each component), failure modes not being identified within the original analysis, and that two different schematic sets were used (NASA used Rockwell International assembly drawings and IOA used the Rockwell International Integrated Schematics).

Table I presents a summary of the quantity of NASA FMEAS assessed, versus the recommended IOA baseline, and any issues identified. The unmapped IOA column is the raw number of IOA failure modes. The mapped IOA column is the number of IOA failure modes after they have been mapped onto the NASA FMEAS. The issues column is the IOA failure modes that were unable to be mapped onto NASA FMEAS.

Table II presents a summary of the quantity of NASA CIL items assessed, versus the recommended IOA baseline, and any issues identified.

Tables III and IV present a summary of the IOA recommended failure criticalities and critical items for the Post 51-L FMEA baseline, respectively. Further discussion of each of these subdivisions and the applicable failure modes and critical items is provided in subsequent paragraphs.

Table V presents the scheme for assigning IOA assessment and analysis worksheet numbers.

Appendix C presents the detailed assessment worksheets for each failure mode. Appendix D presents the NASA Critical Items and corresponding IOA worksheet ID. Appendix E contains IOA analysis worksheets supplementing previous analysis results reported in Space Transportation System Engineering and Operations Support (STSEOS) Working Paper No. 1.0-WP-VA86001-28, Analysis of the Electrical Power Distribution and Control Subsytem, 3, April 1987. Appendix F provides a cross reference between the NASA FMEA and corresponding IOA worksheet(s). IOA recommendations are also summarized.

TABLE I Summary of IOA FMEA Assessment											
EPD&C Subsystems	IOA Unmapped	IOA Mapped	NASA	ISSUES	NOTES						
MDDA MPCA MMCA APCA (4-6) APCA (1-3) ALCA AMCA FPCA FLCA FMCA AGDA FDPC&D MDPC&D MISC	212 172 72 88 86 43 21 220 212 3 206 344 146 30	62 44 28 30 40 12 6 30 32 3 23 123 44 12	57 44 28 30 16 12 6 24 32 3 23 109 44 12	4 0 0 0 24 0 0 6 0 0 14 0	(1,2) (3) (1)						
TOTALS	1855	489	440	48							

TABLE II Summary of IOA CIL Assessment										
EPD&C Subsystems	IOA Mapped	NASA	ISSUES	NOTES						
MDDA MPCA MMCA APCA (4-6) APCA (1-3) ALCA AMCA FPCA FLCA FMCA AGDA FDPC&D MDPC&D MISC	27 6 16 12 5 6 3 7 7 0 4 37 24 9	27 6 16 12 5 6 3 7 7 0 4 37 24	0 0 0 0 0 0 0 0	(1) .(3) (1)						
TOTALS	163	163	0	 						

NOTES:

- (1) These two subsystems share three (3) FMEAs/CILs.
- (2) NASA deleted one (1) FMEA that IOA had not.
- (3) This subsystem has two (2) FMEAs/CILs that NASA covered in a different subsystem (05-6EB).

TABLE III Summary of IOA Recommended Failure Criticalities												
Criticality:	1/1	2/1R	2/2	3/1R	3/2R	3/3	TOTAL					
MDDA MPCA MMCA APCA (4-6) APCA (1-3) ALCA AMCA FPCA FLCA FMCA	3 - 1 - 2 - 1	13 3 15 2 2 1 - 3 1	1	25 17 8 13 14 8 3 8 14	- 3 - 2 - - -	19 21 5 14 22 1 3 18 16	61 44 28 30 40 12 6 30 32					
AGDA FDPC&D MDPC&D MISC TOTAL	3 - 1 12	3 23 16 7 	2 - - - 3	10 40 8 1 	4 1 1	10 51 19 2 	23 123 44 12 488					

TABLE IV	Summary	of IOA	Recon	nmended	Critica	l Item	ns
Criticality:	1/1	2/1R	2/2	3/1R	3/2R	3/3	TOTAL
MDDA MPCA MMCA APCA (4-6) APCA (1-3) ALCA AMCA FPCA FLCA FMCA AGDA FDPC&D MDPC&D	3 - 1 - 2 - 1 1 - 3 -	13 15 2 2 1 - 3 1 - 3 23 16	1 2 -	10 3 1 9 3 3 3 5 - 1 9 8		111111111111	27 6 16 12 5 6 3 7 7 - 4 37 24
MISC	1	7	-	1	-	-	9
TOTAL	12	89	3	59	-		163

+	TABLE V IOA Worksheet Numbers
System	IOA ID Number
MDDA	5010-5030, 5059-5065, 5085-5088, 5100, 5101, 5104, 5105, 5129-5155, 5190-5196, 5208-5211, 5232, 5233, 5242-5244, 5312-5317, 5320-5339, 5350-5366, 5395-5402, 5422-5424, 5436-5440, 5477-5497, 5542-5561, 5592-5611, 6683X-6686X
MPCA	5031-5046, 5102, 5103, 5117, 5118, 5156-5171, 5234-5241, 5264-5305, 5379-5394, 5441-5444, 5461-5476, 5526-5541, 5630-5645, 5648, 5649, 5653-5655, 6671X
MMCA	5980-5995, 6156-6175, 6336-6351, 6676X-6679X, 6707X, 6708X
APCA (4-6)	5000-5009, 5106-5108, 5112, 5113, 5119-5128, 5245-5247, 5251, 5252, 5340-5349, 5445-5447, 5451, 5452, 5498-5505, 5512, 5513, 5565-5572, 5576, 5577, 5586, 5587, 5614-5621 5646, 5647, 5656-5658, 6709X, 6710X
APCA (1-3)	5186-5189, 5375-5378, 6360-6369, 6554-6557, 6562-6573, 6578-6609, 6622-6629
. ALCA	5506, 5507, 5563, 5564, 5612, 5613, 6530-6553, 6558-6561 6658-6662
AMCA	5514-5517, 5578-5585, 6680X-6682X
FPCA	5089-5096, 5212-5219, 5425-5429, 5508, 5562, 5591, 5650-5652, 5686-5713, 5732-5787, 5861-5884, 6032-6061, 6212-6241, 6380-6385, 6691X
FLCA	5659-5676, 5714-5731, 5839-5860, 5899-5904, 6004-6031, 6074-6079, 6184-6211, 6254-6257, 6386-6465, 6697X, 6698X
FMCA	6673X-6675X
AGDA	5885-5896, 5905-5930, 5935-5958, 6062-6073, 6086-6135, 6242-6253, 6264-6313, 6492-6500, 6687X, 6688X
FDPC&D	5047-5058, 5066-5071, 5074-5081, 5172-5185, 5197-5200, 5203, 5204, 5253-5263, 5306-5311, 5318, 5319, 5367-5374, 5403-5414, 5417, 5418, 5453-5460, 5518-5525, 5622-5629, 5677-5685, 5788-5838, 5897, 5898, 5931-5934, 5959, 5962-5965, 5996-6003, 6080-6085, 6176-6183, 6258-6263, 6314, 6315, 6318, 6319, 6352-6359, 6370-6379, 6466-6491, 6574-6577, 6610-6621, 6630-6641, 6644, 6647-6657, 6672X, 6690X, 6692X-6696X, 6703X-6706X

	Table V IOA Worksheet Numbers (continued)
System	IOA ID Number
MDPC&D	5072, 5073, 5082-5084, 5097-5099, 5109-5111, 5114-5116 5201, 5202, 5205-5207, 5220-5231, 5248-5250, 5415, 5416, 5419-5421, 5430-5435, 5448-5450, 5509-5511, 5573-5575, 5588-5590, 5960, 5961, 5966-5979,6136-6155, 6316, 6317, 6320-6335, 6512-6529
MISC	6501-6511, 6642, 6643, 6645, 6646, 6663-6670, 6689X, 6699X-6702X

4.1 Assessment Results - Main DC Distribution Assemblies

The IOA analysis of the Main DC Distribution Assemblies generated one hundred and ninety-nine (199) failure mode worksheets and identified one hundred and six (106) Potential Critical Items (PCIs) before starting the assessment. During the assessment, an additional thirteen (13) failure mode worksheets were generated. The two hundred and twelve (212) IOA worksheets map into fiftyseven (57) NASA FMEAs of which twenty-seven (27) are CILs. the NASA FMEAs, three (3) are criticality 1/1, thirteen (13) are criticality 2/1R, one (1) is criticality 2/2, twenty-five (25) are criticality 3/1R, and fifteen (15) are criticality 3/3. has four (4) worksheets, all criticality 3/3, that do not map into NASA FMEAs. However, these components are test points on the assemblies and in the current configuration are non-critical. IOA recommends no action on them until they are actually used in a flight circuit. Three (3) NASA FMEA/CILs (05-6-2008A-1, 05-6-2008B-1, and 05-6-2008C-1) contain components that are also on the Aft Power Control Assemblies as noted in Tables I and II. IOA has one (1) additional worksheet that maps into a FMEA that The IOA has no issues with the NASA FMEA/CIL NASA deleted. reevaluation for these assemblies.

4.2 Assessment Results - Mid Power Control Assemblies

The IOA analysis of the Mid Power Control Assemblies generated one hundred and fifty-nine (159) failure mode worksheets and identified twenty-one (21) PCIs before starting the assessment. During the assessment, an additional thirteen (13) failure mode worksheets were generated. The one hundred and seventy-two (172) IOA worksheets map into forty-four (44) NASA FMEAs of which six (6) are CILs. Of the NASA FMEAs, three (3) are criticality 2/1R, seventeen (17) are criticality 3/1R, three (3) are criticality 3/2R, and twenty-one (21) are criticality 3/3. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.3 Assessment Results - Mid Motor Control Assemblies

The IOA analysis of the Mid Motor Control Assemblies generated fifty-two (52) failure mode worksheets and identified forty (40) PCIs before starting the assessment. During the assessment, an additional twenty (20) failure mode worksheets were generated. The seventy-two (72) IOA worksheets map into twenty-eight (28) NASA FMEAs of which sixteen (16) are CILs. Of the NASA FMEAs, fifteen (15) are criticality 2/1R, eight (8) are criticality 3/1R, and five (5) are criticality 3/3. Twenty-four (24) of the original IOA analysis worksheets map into two (2) NASA FMEA/CILs (05-6EB-2004-1, and -2) that NASA covers in the Payload Bay Doors/EPD&C Subsystem as noted in Tables I and II. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.4 Assessment Results - Aft Power Control Assemblies 4, 5, & 6

The IOA analysis of the Aft Power Control Assemblies 4, 5, and 6 generated eighty (80) failure mode worksheets and identified twenty-one (21) PCIs before starting the assessment. During the assessment, an additional eight (8) failure mode worksheets were generated. The eighty-eight (88) IOA worksheets map into thirty (30) NASA FMEAs of which twelve (12) are CILs. Of the NASA FMEAs, one (1) is identified as criticality 1/1, two (2) are criticality 2/1R, thirteen (13) are criticality 3/1R, and fourteen (14) are criticality 3/3. Three (3) NASA FMEA/CILs (05-6-2008A-1, 05-6-2008B-1, and 05-6-2008C-1) contain components that are also on the Main DC Distribution Assemblies as noted in Tables I and II. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.5 Assessment Results - Aft Power Control Assemblies 1, 2, & 3

The IOA analysis of the Aft Power Control Assemblies 1, 2, and 3 generated seventy-four (74) failure mode worksheets and identified twenty-six (26) PCIs before starting the assessment. During the assessment, an additional twelve (12) failure mode worksheets were generated. The eighty-six (86) IOA worksheets map into sixteen (16) NASA FMEAs of which five (5) are CILs. the NASA FMEAs, two (2) are criticality 2/1R, six (6) are criticality 3/1R, two (2) are criticality 3/2R, and six (6) are criticality 3/3. The IOA has eight (8) criticality 3/1R non-PCI and sixteen (16) criticality 3/3 worksheets that do not map into NASA FMEAs. The NASA EPD&C Subsystem Manager was not sure whether these components were already reevaluated. discrepancy is the result of NASA using the Rockwell International assembly drawings and the IOA using the Rockwell International integrated schematics. IOA recommends that these components be added to the FMEA/CIL process, unless they are already included in the Solid Rocket Booster FMEAs reevaluation.

4.6 Assessment Results - Aft Load Control Assemblies

The IOA analysis of the Aft Load Control Assemblies generated thirty-nine (39) failure mode worksheets and identified fourteen (14) PCIs before starting the assessment. During the assessment, an additional four (4) failure mode worksheets were generated. The forty-three (43) IOA worksheets map into twelve (12) NASA FMEAs of which six (6) are CILs. Of the NASA FMEAs, two (2) are criticality 1/1, one (1) is criticality 2/1R, eight (8) are criticality 3/1R, and one (1) is criticality 3/3. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.7 Assessment Results - Aft Motor Control Assemblies

The IOA analysis of the Aft Motor Control Assemblies generated twelve (12) failure mode worksheets and identified twelve (12) PCIs before starting the assessment. During the assessment, an additional nine (9) failure mode worksheets were generated. The twenty-one (21) IOA worksheets map into six (6) NASA FMEAs of which three (3) are CILs. Of the NASA FMEAs, three (3) are criticality 3/1R and three are criticality 3/3. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.8 Assessment Results - Forward Power Control Assemblies

The IOA analysis of the Forward Power Control Assemblies generated two hundred and one (201) failure mode worksheets and identified fifty-seven (57) PCIs before starting the assessment. During the assessment, an additional nineteen (19) failure mode worksheets were generated. The two hundred and twenty (220) IOA worksheets map into twenty-four (24) NASA FMEAs of which seven (7) are CILs. Of the NASA FMEAs, one (1) is criticality 1/1, three (3) are criticality 2/1R, eight (8) are criticality 3/1R, and twelve (12) are criticality 3/3. The IOA has six (6) criticality 3/3 worksheets that do not map into NASA FMEAs. However, these components are test points on the assemblies and in the current configuration are non-critical. IOA recommends no action on them until they are actually used in a flight circuit. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.9 Assessment Results - Forward Load Control Assemblies

The IOA analysis of the Forward Load Control Assemblies generated two hundred and ten (210) failure mode worksheets and identified nine (9) PCIs before starting the assessment. During the assessment, two (2) additional failure mode worksheets were generated. The two hundred and twelve (212) IOA worksheets map into thirty-two (32) NASA FMEAs of which seven (7) are CILs. Of the NASA FMEAs, one (1) is criticality 1/1, one (1) is criticality 2/1R, fourteen (14) are criticality 3/1R, and sixteen (16) are criticality 3/3. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.10 Assessment Results - Forward Motor Control Assemblies

The IOA analysis of the Forward Motor Control Assemblies did not generate any failure mode worksheets and did not identify any PCIs before starting the assessment. During the assessment, three (3) failure mode worksheets were generated which map into three (3) NASA FMEAS of which none were CILs. The FMEAS are all criticality 3/3. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.11 Assessment Results - AC Generation & Distribution Assemblies

The IOA analysis of the AC Generation and Distribution Assemblies generated one hundred and ninety-five (195) failure mode worksheets and identified eighteen (18) PCIs before starting the assessment. During the assessment, an additional eleven (11) failure mode worksheets were generated. The two hundred and six (206) IOA worksheets map into twenty-three (23) NASA FMEAs of which four (4) are CILs. Of the NASA FMEAs, three (3) are criticality 2/1R, ten (10) are criticality 3/1R, and ten (10) are criticality 3/3. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.12 Assessment Results - Flight Deck Panel Controls & Displays

The IOA analysis of the Flight Deck Panel Controls and Displays generated two hundred and ninety-eight (298) failure mode worksheets and identified ninety-two (92) PCIs before starting the assessment. During the assessment, an additional forty-six (46) failure mode worksheets were generated. The three hundred and forty-four (344) IOA worksheets map into one hundred and nine (109) NASA FMEAs of which thirty-seven (37) are CILs. Of the NASA FMEAs, three (3) are criticality 1/1, twenty-three (23) are criticality 2/1R, thirty-eight (38) are criticality 3/1R, two (2) are criticality 2/2, four (4) are criticality 3/2R, and thirty-seven (37) are criticality 3/3. Two (2) NASA FMEAs (05-6-2237-3 and 05-6-2238-3), criticality 3/1R non-CIL, were not assessed by the IOA because the FMEA data were not received at the time of this report. IOA expects to agree with NASA on these IOA has fourteen (14) worksheets that do not map into the NASA FMEAs. They are all criticality 3/3 and may be included in another subsystem, perhaps Displays and Controls. IOA recommends that these components be added to the FMEA/CIL process, if they are not already included elsewhere.

4.13 Assessment Results - Mid Deck Panel Controls & Displays

The IOA analysis of the Mid Deck Panel Controls and Displays generated one hundred and twenty-nine (129) failure mode worksheets and identified forty-eight PCIs before starting the assessment. During the assessment, an additional seventeen (17) failure mode worksheets were generated. The one hundred and forty-six (146) IOA worksheets map into forty-four (44) NASA FMEAs of which twenty-four (24) are CILs. Of the NASA FMEAs, sixteen (16) are criticality 2/1R, eight (8) are criticality 3/1R, one (1) is criticality 3/2R, and nineteen (19) are criticality 3/3. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.14 Assessment Results - MECs, ACAs, and Current Sensors

The IOA analysis of the MECs, ACAs, and Current Sensors generated twenty-three (23) failure mode worksheets and identified four (4) PCIs before starting the assessment. During the assessment, seven additional failure mode worksheets were generated. The thirty (30) IOA worksheets map into twelve (12) NASA FMEAs of which nine (9) are CILs. Of the NASA FMEAs, one (1) is criticality 1/1, seven (7) are criticality 2/1R, one (1) is criticality 3/1R, one (1) is criticality 3/2R, and two (2) are criticality 3/3. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.15 Assessment Results - Why The IOA and The NASA Agree

The IOA has zero (0) real issues with the NASA FMEA/CIL reevaluation for the following reasons:

- A. The IOA analyst was unable to obtaing sufficient data on Crew and Flight procedures. The specific areas appear in Appendix F in the resolution codes.
- B. The NSTS 22206 document was revised three or four times during the analysis and assessment process and the interpretations of it changed during the process. Initially, the IOA analyst and the NASA Subsystem Manager had differing views on the "B" screen detectability issue. The IOA analyst finally agreed with the NASA argument. Many FMEAs were upgraded to CIL status due to the interpretation of the "failures outside the subsystem" rule. The application of this rule was difficult in the EPD&C subsystem because it interfaces with every system on the vehicle (e.g. where does EPD&C stop and another system begin).
- C. The IOA analyst originally did not believe a power bus (the wire or copper strip) could be lost with one failure. A discussion with a Rockwell engineer convinced him otherwise.

5.0 REFERENCES

Reference documentation available from NASA and Rockwell was used in the analysis. The documentation used included the following:

- 1. VS70-976102 Integrated System Schematic Electrical Power Distribution and Control Subsystem, Revision 14, 2 July 1986.
- 2. VS70-948102 Integrated System Schematic Solid Rocket Booster Subsystem, Revision 14, 26 September 1985.
- 3. JSC-11174 Space Shuttle Systems Handbook, Volumes 1 and 2, Mission Operations Directorate, Systems Division, Revision C, DCN-5, 13 September 1985.
- 4. VS70-941102 Integrated System Schematic Main Propulsion System, Revision E, 26 October 1979.
- 5. VS70-943102 Integrated System Schematic Aft Propulsion System, OMS/RCS, Revision D08, 20 May 1986.
- 6. VS70-942102 Integrated System Schematic Forward Reaction Control System, Revision H02, 19 September 1984.
- 7. JSC-19041 Shuttle Booster: Master Events Controller Overview, 1 October 1984.
- 8. SSR10-26 EPS Bus Loss Listing, Revision 025, 30 September 1985.
- JSC 12820, STS Operational Flight Rules, Final PCN-3, 28 June 1985.
- 10. NSTS 22206, Instructions for Preparation of FMEA and CIL, 10 October 1986.
- 11. Conversations with W. Stagg/NASA EPD&C Subsystem Manager from June 1987 through December 1987.

APPENDIX A ACRONYMS

- Alternating Current AC - Annunciator Control Assembly ACA - Abort Once Around AOA - Aft Power APCA - Abort To Orbit ATO - Critical Items List CIL - Criticality CRIT - Caution and Warning System C&W - Direct Current DC ECLSS - Environmental Control and Life Support System EPD&C - Electrical Power Distribution and Control - Electrical Power Generation **EPG** - Fuel Cell Powerplant FCP FC - Fuel Cell - Failure Modes and Effects Analysis **FMEA** - Flight System Software Requirement FSSR - Get Away Special GAS - General Purpose Computer **GPC** - Ground Support Equipment GSE - Hybrid Driver Controller HDC - Hertz (cycles per second) Hz - Independent Orbiter Assessment IOA - Master Events Controller MEC MDAC - McDonnell Douglas Astronautics Company - Main DC Distribution Assembly MDDA Multiplexer/Demultiplexer MDM MDDC - Main DC Distribution Assembly MMCA - Mid Motor Control Assembly MPCA - Mid Power Control Assembly - Mid Power Control Assembly MPCA NASA - National Aeronautics and Space Administration - Not Applicable NA - National Space Transportation System NSTS - Operational Forward OF OMRSD - Operational Maintenance Requirements and Specifications Document - Power Control Assembly PCA - Potential Critical Item PCI - Primary Landing Site PLS - Power Section Assembly PSA - Program Requirements Control Board PRCB PRSDS - Power Reactant Storage and Distribution System - Rockwell International RI - Reactant Control Subsystem RCS - Remote Power Controller RPC RTLS - Return To Landing Site - Space Transportation System STS - Transatlantic Abort Landing \mathtt{TAL} - Thermal Control Subsystem TCS - Water Removal Subsystem WRS

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APPENDIX B

DEFINITIONS, GROUND RULES, AND ASSUMPTIONS

- B.1 Definitions
- B.2 Project Level Ground Rules and Assumptions
- B.3 Subsystem-Specific Ground Rules and Assumptions

APPENDIX B DEFINITIONS, GROUND RULES, AND ASSUMPTIONS

B.1 Definitions

Definitions contained in <u>NSTS 22206</u>, <u>Instructions For Preparation of FMEA/CIL</u>, 10 October 1986, were used with the following amplifications and additions.

INTACT ABORT DEFINITIONS:

RTLS - begins at transition to OPS 6 and ends at transition
to OPS 9, post-flight

TAL - begins at declaration of the abort and ends at transition to OPS 9, post-flight

AOA - begins at declaration of the abort and ends at transition to OPS 9, post-flight

ATO - begins at declaration of the abort and ends at transition to OPS 9, post-flight

<u>CREDIBLE (CAUSE)</u> - an event that can be predicted or expected in anticipated operational environmental conditions. Excludes an event where multiple failures must first occur to result in environmental extremes

<u>CONTINGENCY CREW PROCEDURES</u> - procedures that are utilized beyond the standard malfunction procedures, pocket checklists, and cue cards

<u>EARLY MISSION TERMINATION</u> - termination of onorbit phase prior to planned end of mission

EFFECTS/RATIONALE - description of the case which generated the highest criticality

<u>HIGHEST CRITICALITY</u> - the highest functional criticality determined in the phase-by-phase analysis

<u>MAJOR MODE (MM)</u> - major sub-mode of software operational sequence (OPS)

<u>MC</u> - Memory Configuration of Primary Avionics Software System (PASS)

MISSION - assigned performance of a specific Orbiter flight with payload/objective accomplishments including orbit phasing and altitude (excludes secondary payloads such as GAS cans, middeck P/L, etc.)

MULTIPLE ORDER FAILURE - describes the failure due to a single cause or event of all units which perform a necessary (critical) function

OFF-NOMINAL CREW PROCEDURES - procedures that are utilized beyond the standard malfunction procedures, pocket checklists, and cue cards

OPS - software operational sequence

PRIMARY MISSION OBJECTIVES - worst case primary mission objectives are equal to mission objectives

PHASE DEFINITIONS:

PRELAUNCH PHASE - begins at launch count-down Orbiter
power-up and ends at moding to OPS Major Mode 102 (liftoff)

LIFTOFF MISSION PHASE - begins at SRB ignition (MM 102) and ends at transition out of OPS 1 (Synonymous with ASCENT)

ONORBIT PHASE - begins at transition to OPS 2 or OPS 8 and ends at transition out of OPS 2 or OPS 8

<u>DEORBIT PHASE</u> - begins at transition to OPS Major Mode 301 and ends at first main landing gear touchdown

<u>LANDING/SAFING PHASE</u> - begins at first main gear touchdown and ends with the completion of post-landing safing operations

APPENDIX B DEFINITIONS, GROUND RULES, AND ASSUMPTIONS

B.2 IOA Project Level Ground Rules and Assumptions

The philosophy embodied in <u>NSTS 22206</u>, <u>Instructions for Preparation of FMEA/CIL</u>, <u>10 October 1986</u>, was employed with the following amplifications and additions.

1. The operational flight software is an accurate implementation of the Flight System Software Requirements (FSSRs).

RATIONALE: Software verification is out-of-scope of this task.

2. After liftoff, any parameter which is monitored by system management (SM) or which drives any part of the Caution and Warning System (C&W) will support passage of Redundancy Screen B for its corresponding hardware item.

RATIONALE: Analysis of on-board parameter availability and/or the actual monitoring by the crew is beyond the scope of this task.

3. Any data employed with flight software is assumed to be functional for the specific vehicle and specific mission being flown.

RATIONALE: Mission data verification is out-of-scope of this task.

4. All hardware (including firmware) is manufactured and assembled to the design specifications/drawings.

RATIONALE: Acceptance and verification testing is designed to detect and identify problems before the item is approved for use.

5. All Flight Data File crew procedures will be assumed performed as written, and will not include human error in their performance.

RATIONALE: Failures caused by human operational error are out-of-scope of this task.

6. All hardware analyses will, as a minimum, be performed at the level of analysis existent within NASA/Prime Contractor Orbiter FMEA/CILs, and will be permitted to go to greater hardware detail levels but not lesser.

RATIONALE: Comparison of IOA analysis results with other analyses requires that both analyses be performed to a comparable level of detail.

7. Verification that a telemetry parameter is actually monitored during AOS by ground-based personnel is not required.

RATIONALE: Analysis of mission-dependent telemetry availability and/or the actual monitoring of applicable data by ground-based personnel is beyond the scope of this task.

8. The determination of criticalities per phase is based on the worst case effect of a failure for the phase being analyzed. The failure can occur in the phase being analyzed or in any previous phase, whichever produces the worst case effects for the phase of interest.

RATIONALE: Assigning phase criticalities ensures a thorough and complete analysis.

9. Analysis of wire harnesses, cables, and electrical connectors to determine if FMEAs are warranted will not be performed nor FMEAs assessed.

RATIONALE: Analysis was substantially complete prior to NSTS 22206 ground rule redirection.

10. Analysis of welds or brazed joints that cannot be inspected will not be performed nor FMEAs assessed.

RATIONALE: Analysis was substantially complete prior to NSTS 22206 ground rule redirection.

11. Emergency system or hardware will include burst discs and will exclude the EMU Secondary Oxygen Pack (SOP), pressure relief valves and the landing gear pyrotechnics.

RATIONALE: Clarify definition of emergency systems to ensure consistency throughout IOA project.

APPENDIX B DEFINITIONS, GROUND RULES, AND ASSUMPTIONS

- B.3 EPD&C-Specific Ground Rules and Assumptions
 - 1. The failure modes of a resistor shorting (e.g. little or zero resistance) and shorting to ground are not considered for all resistors in this analysis.

RATIONALE: A shorted resistor will still conduct current to the connected device. All Orbiter electrical components in this subsystem have built-in over-current protection and will continue to operate. A resistor shorting to ground has the same effect as a resistor opening, that is no current will be conducted to the rest of the circuit.

2. The failure modes of most switches, relays, power contactors, hybrid device controllers and remote power controllers are either a) fails open or off or b) fails closed or on. The failure modes a) fails to transfer or b) inadvertent transfer are specified only when the controlled subsystem functions would be adversely effected and specifically cause a higher criticality rating.

RATIONALE: Criticalities are assigned based on hardware and functional effects. The major percentage of the above components are doubly or triply, redundant in hardware and function. The functional failure of a component has more weight in determining its criticality than the hardware failure. If a switch fails to transfer or inadvertently transfers, it is either failed on and closed or failed off and open.

3. The assumption stated in 22206 that all other subsystems are operational within specifications is not used in this analysis where one or more failures in these subsystems would raise the criticality of the component analyzed.

RATIONALE: Several subsystems in the Orbiter have never been or are not planned to be used in the near future during an actual flight. Examples include but are not limited to, the BFS, fuel cell shutdown and restart, DC bus ties, and RMS jettison. Criticalities are assigned to the components which supply and control power to these functions as if they are required.

4. All components directly related to fuel cell operation are assigned criticalities based on only one fuel cell failing.

RATIONALE: The EPD&C/EPG analysis was conducted under the assumption that two fuel cells had already failed. Therefore, the highest criticalities on fuel cell operations have already been assigned.

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APPENDIX C DETAILED ASSESSMENT

This section contains the IOA assessment worksheets generated during the assessment of this subsystem. The information on these worksheets facilitates the comparison of the NASA FMEA/CIL (Pre and Post 51-L) to the IOA detailed analysis worksheets included in Appendix E. Each of these worksheets identifies the NASA FMEA being assessed, corresponding MDAC Analysis Worksheet ID (Appendix E), hardware item, criticality, redundancy screens, and recommendations. For each failure mode, the highest assessed hardware and functional criticality is compared and discrepancies noted as "N" in the compare row under the column where the discrepancy occurred.

LEGEND FOR IOA ASSESSMENT WORKSHEETS

Hardware Criticalities:

- 1 = Loss of life or vehicle
- 2 = Loss of mission or next failure of any redundant item (like or unlike) could cause loss of life/vehicle
- 3 = All others

Functional Criticalities:

- 1R = Redundant hardware items (like or unlike) all of which,
 if failed, could cause loss of life or vehicle
- 2R = Redundant hardware items (like or unlike) all of which, if failed, could cause loss of mission

Redundancy Screens A, B and C:

- P = Passed Screen
- F = Failed Screen
- NA = Not Applicable

NASA Data:

Baseline = NASA FMEA/CIL

New = Baseline with Proposed Post 51-L Changes

CIL Item :

X = Included in CIL

Compare Row:

N = Non compare for that column (deviation)

APPENDIX C ASSESSMENT WORKSHEET

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LEAD ANA	LY	ST	:	ĸ.	SCE	IME	ECK	PEP	ER											
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]		LIGHT W/FUI				A			В			(2			1.	LEr	1	
NASA IOA	[3 2	/1R /1R]		[P P]	[F F]		[]	?]			[X X]	*
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REMARKS: IOA CONC										AT:	ION	AS	N2	ASA	AG	REE	s :	TH2	ΥĽ	THIS

ASSESSME ASSESSME NASA FME	NT I		EPD&					N	IASA I BASEI	LINE			
SUBSYSTE MDAC ID:	M:		EPD&6 5009 FUSE	С , ЗА !	ro g	SE MC	NITO	R					
LEAD ANA	LYST	:	K. S	CHMEC	KPEP	ER							
ASSESSME	NT:												
	CRIT	_		R	EDUN	IDANCY	SCR	EENS			CIL		
	2 "	LIGH W/FU		A		E	3	C	3				
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COMPARE	[/]	[]	נ]	[]		[]	
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REMARKS:													

ASSESSME NASA FME	NT I	ID:	EPD&C	2-501			-		BASEL	- NA -	•	у х ј	
SUBSYSTE MDAC ID: ITEM:			EPD&0 5010 RESIS		5.1	.K 1/4	W (T	'O GS1	E MONI	ror)			
LEAD ANA	LYSI	r:	K. SC	CHME	CKPEP	ER							
ASSESSME	NT:												
			YTI	F	REDUN	DANCY	SCR	EENS			CI		
		FLIGH DW/FU		P	1	В		(2		IT:	EM	
NASA IOA	[3	3 /3]	[]	[]	[[]		[]	*
COMPARE	[/]	[]	[]	[]		[]	
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* CIL RE	TENI	NOI	RATION	IALE:	(If	appl	icab	Į	ADEQUAT		[]	
REMARKS:								TIVE	PDECOVI	ند،	ι	J	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/06/87 EPD&C-5011 05-6-2354-			BASELIN NE] x]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5011 RESISTOR,	5.1K 1/4W	(TO G	SE MONITO)R)	
LEAD ANALYST:	K. SCHMECK	(PEPER				•
ASSESSMENT:						
CRITICAL: FLIGH		EDUNDANCY	SCREEN	ıs	CI:	
HDW/FU		В		С		
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COMPARE [/] [] [] [[]	[]
RECOMMENDATIONS:	(If dif	ferent fro	om NASA	A)	•	
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* CIL RETENTION	RATIONALE:	(If appl) ADEQUATI INADEQUATI]
REMARKS:			•			J

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SUBSYSTEMDAC ID			EPD&C 5012 RESIS	ror,	5.1K	1/4	OT) W	MDM	OF3)		
LEAD AN	ALYST	! :	K. SC	HMEC:	KPEPE	R					
ASSESSMI	ENT:										
		'ICAL 'LIGH		R	EDUND	ANCY	SCRE	ENS		CIL	
	_	W/FU		A		В		C			••
NASA IOA	[3 [3	/3]	[]	[]]]	[[] *
COMPARE	[/]	[]	[]	[]	[]
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* CIL RI		'ION	RATION	ALE:	(If	appl:	icabl	A	DEQUATE DEQUATE	[]
REMARKS	i										

ASSESSME ASSESSME NASA FME	NT	II		EPD	5/87 &C-501 5-2342				N	NASA DATA: BASELINE [] NEW [X]								
SUBSYSTE MDAC ID: ITEM:	D: 5013 RESISTOR, 5.1K 1/							W (T	O MDM	OF3)		: +1 <i>=</i>					
LEAD ANA	LY	ST	:	K. 8	SCHMEC	KPEP	ER					• • •						
ASSESSME	NT	:						2 MA MA CO C										
CRITICALITY FLIGHT					Y REDUNDANCY SCREE					NS			CIL ITEM					
	HDW/FUNC		_	A		В		(С									
NASA IOA	[3 3	/3 /3]	[]	[]	[]]]	*				
COMPARE	[/]	[]	[1	[]		[]					
RECOMMEN	IDA'	ΤI	ons:	(If dif	fere	ent fr	om N	ASA)			. f						
-	. [/]	[]	[]	[]	(A	[DD/I)EL	ETE)				
* CIL RE	ETE:	NΤ	ION	RATI	ONALE:	(If	appl	icab.	7	ADEQU ADEQU		[]					

REMARKS:

ASSESSME	ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5014 IASA FMEA #: 05-6-2336-1							Ŋ	BASE		[X]	
SUBSYSTE MDAC ID: ITEM:			EPD&C 5014 RESIS	TOR,	1.2	K 2W								
LEAD ANA	LYS	T:	K. SC	HMEC:	KPEP	ER								
ASSESSME	NT:													
		TICAL		R	EDUN	DANCY	SCR	EENS			CI	L	,	
	FLIGHT HDW/FUNC			A	٠	F	3	C			11	. E.M		
NASA IOA	[:	3 /3 3 /3]	[]	[]	[]		[]	*
COMPARE	[/]	[]	[]	[]		[]	
RECOMMEN	DAT:	ions:	(If	dif	fere	nt fi	om N	ASA)						
	ξ	/	1	[3	[]	[]	(AI	[DD/	'DE] :LE	TE)
* CIL RE	TEN'	TION	RATION	ALE:	(If	app]	.icab	P	DEQUA		[]	
REMARKS:								2112			Ĺ		J	

ASSESSME	ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5015 NASA FMEA #: 05-6-2334-1						NASA DATA: BASELINE [] NEW [X]							
SUBSYSTE MDAC ID:	M:	50	PD&C 015 ESISTOR	, 2K	1/4W	(TO	C&W)							
LEAD ANA	LYST:	K	. SCHME	CKPEP	ER									
ASSESSME	NT:													
CRITICALITY FLIGHT HDW/FUNC			_	REDUN A	DANCY B	SCR	EENS	!		CIL ITEM				
NASA IOA	_		[]	[]	[]	[] *]				
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		/]	[]	[]	ι]	[(ADD/I] DELETE)				
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REMARKS:

ASSESSMENT ASSESSMENT NASA FMEA	T ID:	6/06/87 EPD&C-501 05-6-2334			NASA DATA: BASELINE [] NEW [X]							
SUBSYSTEM MDAC ID: ITEM:		EPD&C 5016 RESISTOR,	14K	1/4W	(TO C&W)							
LEAD ANAL	YST:	K. SCHMEC	KPEP	ER								
ASSESSMEN'	T:											
C	ľ	REDUNDANCY A B			ENS C		CIL ITEM					
NASA IOA	[3 /3] []	[]	[]	[] *			
COMPARE	[/] []	[]	£	1	C]			
RECOMMEND	ATIONS:	(If dif	fere	nt fro	om NA	SA)						
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REMARKS:

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5017	7 A-1	NASA DATA: BASELINE [] NEW [X]							
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5017 FUSE, 2007	A TO APCA-	4							
LEAD ANALYST:	K. SCHMECE	KPEPER								
ASSESSMENT:										
	ITY RI	EDUNDANCY	SCREENS	CIL ITEM						
FLIGH HDW/FU		В	С	110.1						
NASA [3 /1F IOA [2 /1F	[P] [F] [F] [P]] [P]	[X] * [X]						
COMPARE [N /] [] [] []	[]						
RECOMMENDATIONS:	(If dif:	ferent fro	om NASA)							
] [] [[] [AI	[] DD/DELETE)						
* CIL RETENTION	RATIONALE:	(If appli	.cable) ADEQUATE INADEQUATE							
REMARKS: IOA CONCURS WITH FAILURE IS 1R2 I	THE NASA TO THE TOTAL TO	REEVALUATI ABORT.	ON AS NASA AGREES	S THAT THIS						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5018	•	NASA DATA: BASELINE NEW	
	EPD&C 5018 FUSE, 200A	TO APCA-4		and the second s
LEAD ANALYST:	K. SCHMECKPI			
ASSESSMENT:				
CRITICALI FLIGHT		UNDANCY SCREENS		CIL ITEM
	IC A	В	С	112.1
NASA [3 /1R IOA [2 /1R] [P]] [P]	[F][[F]	P] P]	[X] * [X]
COMPARE [N /] []	[] [1] :::::::::::::::::::::::::::::::::::::
RECOMMENDATIONS:	(If differ	rent from NASA)		
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* CIL RETENTION F	RATIONALE: (ADEQUATE ADEQUATE	[X]
REMARKS: IOA CONCURS WITH FAILURE IS 1R2 FO			ASA AGREES	THAT THIS

ASSESSME ASSESSME NASA FME	1		NASA DATA: BASELINE [] NEW [X]								
SUBSYSTE MDAC ID: ITEM:		EPD&C 5019 FUSE,	5A T	O MPO	CA-1,	FPC!	A-1,	APCA-	4		
LEAD ANA	LYST:	K. SCH	MECK	PEPE	2	* ·		•			
ASSESSME	NT:										
	RE	DUND	OUNDANCY SCREENS CII								
	FLIGH HDW/FU	A		В		С					
NASA IOA	[3 /3 [3 /3]	[]	[]				[] *
COMPARE	[/]	[]	[]	[]		[]
RECOMMEN	DATIONS:	(If	diff	eren	t fro	om NA	SA)				
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* CIL RE	TENTION	RATIONA	ALE:	(If	appl:	icabl	A	DEQUAT	E	[]
REMARKS:						_	INA	DEQUAT	L	L	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-50			NASA DATA BASELINE NEW						
	EPD&C 5020 SWITCH, 1	MOTORIZ	ED (DC TIE	IE BUS MAIN A)						
LEAD ANALYST:	K. SCHME	CKPEPER								
ASSESSMENT:										
CRITICAL FLIGH HDW/FU	r	REDUNDAI A	NCY SCREEN B	rs C	CIL ITEM					
NASA [3 /1R IOA [2 /1R] [P] P]	[NA] [[P] [P] P]	[] *					
COMPARE [N /] []	[и]	1	[N]					
RECOMMENDATIONS:	(If di	fferent	from NASA	.)						
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* CIL RETENTION :	RATIONALE	: (If a		ADEQUATE NADEQUATE	[]					
IOA CONCURS WITH THE CIRCUIT.	NASA'S R	EEVALUA!	TION AFTER	FURTHER A	NALYSIS OF					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:				NASA DATA BASELINE NEW	
	EPD&C 5021 SWITCH,	MOTORI2	ED (DC TI	E BUS MAIN	A)
LEAD ANALYST:	K. SCHM	ECKPEPEI			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	INS	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [3 /1R IOA [3 /3] [P]	[NA] []	[P] []	[] *
COMPARE [/N] [N]	[N]	[N]	[]
RECOMMENDATIONS:	(If d	ifferen	t from NAS	SA)	
[/] [1	[]	[]	[] ADD/DELETE)
* CIL RETENTION	RATIONAL	E: (If	applicable	ADEQUATE	[]
REMARKS: IOA CONCURS WITH AFFECTING THE GF RULED OUT DURING	CS DURIN	-EVALUA G DE-OR	TION CONCI BIT. HOWI	~	SIENTS

	E: 6/06/ EPD&C 05-6-	-5022			A: E [] W [X]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5022 FUSE,	150A TO	DC TIE B	IJ S	
LEAD ANALYST:	K. SC	НМЕСКРЕРЕ	R		
ASSESSMENT:					
CRITICA FLIC HDW/1		REDUND A	ANCY SCR	eens C	CIL ITEM
NASA [3 /: IOA [3 /:	LR] LR]	[P] [P]	[NA] [F]	[P] [P]	[] *
COMPARE [/]	[]	[и]	[]	[N]
RECOMMENDATIONS	3: (If	differen	t from N	ASA)	٠
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* CIL RETENTION REMARKS:		·		le) ADEQUATE INADEQUATE	
IOA CONCURS WIT	'H NASA'	S SCREEN	"B".		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/06/87 EPD&C-502 05-6-2260			BASELINI NET	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5023 FUSE, 150	A TO DC	TIE BUS	S	
LEAD ANALYST:	K. SCHMEC	KPEPER			
ASSESSMENT:					
CRITICAL FLIGH	łT	REDUNDAN			CIL ITEM
HDW/FC			В	С	
NASA [3 /11 IOA [3 /11	R] [F] [NA] F]	[P] [P]	[x] *
COMPARE [/] [] [и]	[]	[N]
RECOMMENDATIONS	: (If dif	fferent	from NA	SA)	
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* CIL RETENTION	RATIONALE:	: (If ap	plicabl	e) ADEQUATE INADEQUATE	[]
REMARKS: IOA CONCURS WITH	H NASA'S SO	CREEN "B	п.		

ASSESSMEN	SSESSMENT DATE: 6/06/87 SSESSMENT ID: EPD&C-5024 ASA FMEA #: 05-6-2260-1						NASA DATA: BASELINE [] NEW [X]									
SUBSYSTEM MDAC ID: ITEM:	M:		EPD&C 5024 FUSE,		50A	. TO	DC	T:	CE B	BUS						
LEAD ANAI	LYST	:	K. SC	HME	ECK	PEPE	ER									
ASSESSMEN	T:															
C		ICAL:	ITY F		RE	DUNI	AN	CY	SCR	REENS				IL FEN	4	
	HD	W/FUI	NC		A			В			С					
NASA IOA	[3 [3	/1R /1R]	[P P]	[NZ F	A]	[P] P]		[[x]	*
COMPARE	[/]	[]	[N]	[]		[N]	
RECOMMENI	DATI	ons:	(If	di	lff	erer	it :	fro	om N	IASA)						
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* CIL RET	rent	ION 1	RATION	ALE	Ξ:	(If	ap	pl:	i.cab		ADEÇ ADEÇ	QUATE QUATE]]	
IOA CONCI	JRS	WITH	NASA'	s s	CR	EEN	"B									

•	12/05/87 EPD&C-50 05-6-200	25		nasa da Baseli N	
	EPD&C 5025 SWITCH,	MOTORIZ	ED (MAI)	N DC BUS A	F/C PWR)
LEAD ANALYST:	K. SCHME	ECKPEPE	₹		
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCRI	EENS	CIL ITEM
FLIGH HDW/FU		A	В	С	112.
NASA [2 /1R IOA [2 /1R] [P] P]	[P] [P]	[P] [P]	[X] * [X]
COMPARE [/] []	[]	[]	[]
RECOMMENDATIONS:	(If d	ifferen	from N	ASA)	
, (man - 1 km) / (m) /] [.]	[]	[]	[] (ADD/DELETE)
* CIL RETENTION	RATIONALI	E: (If	applicab	le) ADEQUAT INADEQUAT	re [X] re []
REMARKS: IOA CONCURS WITH	NASA TH	AT THIS	FAILURE	IS 1/1 FOR	R RTLS ABORT.

ASSESSME ASSESSME NASA FME	ENT	ID):	12/1: EPD&6 05-6	C-50	26								DATA LINE NEW	[]	
SUBSYSTE MDAC ID: ITEM:				EPD&6 5026 SWITE		MC	TOR	IZE	D	(MAI	N	DC	BUS	A F/	C F	WP	t)	
LEAD ANA	LYS	T:		K. S	СНМЕ	CK	(PEP	ER										
ASSESSME	NT:																	
		FI	IGHT				DUN	DAN		SCR	REE				CI	L EM	ľ	
	H	DW	/FUN	IC		A			В			С						
NASA IOA	[2	/1R /1R]	[P P]	[F P]		[P]		[x] *	t
COMPARE	C	N	/]	[]	[N]		[]		[N]	
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REMARKS:							•	•				A		ATE ATE		X]	
IOA CONC	URS																	LLY
CONSIDER	TH	E	LOSS	OF A	AN E	SS	ENT	IAL	BU	JS A	S	A S	${ t INGL}$	E FA	ILU	RE		

ASSESSME ASSESSME NASA FME	NT ID:	6/06/87 EPD&C-50 05-6-227					ASA DAT BASELIN NE	Œ []
SUBSYSTEMDAC ID:	M:	EPD&C 5027 FUSE, 3A	TO D	c vor	rmete	R	-		
LEAD ANA	LYST:	K. SCHME	CKPEP	ER					
ASSESSME	NT:								
	CRITICAI FLIGH		REDUN	DANCY	SCRE			CII ITE	=
	HDW/FU	JNC	A	В		C			
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COMPARE	[/] []	[]	[1	[1
RECOMMEN	DATIONS	(If di	ffere	nt fr	om NA	SA)			
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* CIL RE	TENTION	RATIONALI	E: (If	appl	icabl	. 7	DEQUATI]

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ASSESSMENT ASSESSMENT NASA FMEA #	ID:	EPD&C-	5028	3 -1			ŀ	NASA DA BASELI N		: x]	
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5028 FUSE,	20A	TO ES	ss Bu	JS 1BC	:				. · ••	
LEAD ANALYS	T:	K. SCH	MECH	KPEPEI	₹							
ASSESSMENT:												
	FLIGHT			DUND		SCREE				CIL		
Н	DW/FUN	IC	A		В		(2				
NASA [] AOI	3 /1R 3 /1R]	[P [P]	[P [F]	[?] ?]	1	X]	*
COMPARE [/]	[]	[N]	[]	(N]	
RECOMMENDAT	ions:	(If	diff	erent	fro	m NAS	A)					
	/]	[]	[]	[]) IDA)] ELE	TE)
* CIL RETEN	TION F	ATIONA	LE:	(If a	appli	cable	P	ADEQUAT	E (]	
REMARKS: IOA CONCURS		NASA'S	SCF	REEN "	В".		-			•	J	

ASSESSME ASSESSME NASA FME	NT ID:	EPD8	5/87 6C-5029 5-2253-1			N	IASA D BASEL		: [x]	
SUBSYSTE MDAC ID:		EPD& 5029 FUSE		DC VO	LTMET	ER					
LEAD ANA	LYST:	к. s	CHMECKP	EPER							
ASSESSME	ENT:										
	CRITIC		RED	UNDANC	Y SCR	EENS			CIL	_	
	HDW/		A		В	(2				
NASA IOA	[3 /	3] 3]	[]	[[]	[]		[] *]	
COMPARE	[/)	[]	ſ]	[]		[]	
RECOMMEN	NOITAGN	S: (]	(f diffe	rent f	rom N	IASA)					
e e e e e	[/]	[]	[]	(]	(A	[DD/E] ELETI	Ε)
* CIL RI		N RATIO	ONALE: (If app	olicak	7	ADEQUA ADEQUA		[]	
KEMAKKS	•										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		NASA DATA: BASELINE [] NEW [X]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5030 SHUNT, DC AMMETER (TO F/	C 1)
LEAD ANALYST:	K. SCHMECKPEPER	
ASSESSMENT:		
CRITICAL FLIGH	ITY REDUNDANCY SCREES	NS CIL ITEM
HDW/FU	NC A B	С
NASA [2 /1R IOA [2 /1R] [P] [P]] [P] [P]	[P] [X]* [P] [X]
COMPARE [/] [] []	[] []
RECOMMENDATIONS:	(If different from NAS	A)
[/] [] []	[] [] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE []
	NASA THAT THIS FAILURE IS WN VALVES FAILURE AND PRO	

ASSESSMENT ASSESSMENT NASA FMEA	ID:	6/06/8 EPD&C- 05-6-2	5031				N	BASELI	NE	[x]	
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5031 RPC, 7	'.5A	(DC	rie 1	BUS MA	AIN	A)			11.	
LEAD ANALY	ST:	K. SCH	IMECI	(PEPE	R							
ASSESSMENT	:											
ĊR	ITICAL FLIGH		RI	EDUND	ANCY	SCRE	ens			CIL		
	HDW/FU		A		В		C	2				
NASA [IOA [3 /3 3 /3]	[]	[]	[]		[] *	•
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REMARKS:							IN	ADEQUA'	ΓE	[j	

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SUBSYSTE MDAC ID:			EPD&C 5032 RPC,	7.5A	(DC	TIE E	BUS MA	AIN	I A)		•	٠	
LEAD ANA	LYST	:	K. SCI	MECI	KPEPE	R							
ASSESSME	ENT:												
	F	LIGH		RI	EDUND	ANCY	SCREI	ens	;		CIL	M	
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COMPARE	[/N]	[N]	[N]	[и]		[]	
RECOMMEN	IDATI	ons:	(If	diff	eren	t fro	m NAS	SA)					
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* CIL RE	ETENT	ION I	RATION	ALE:	(If	appli	cable	•	3 DEOL	'ame	_	,	
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REMARKS: IOA CONC CONCERNS	CURS	WITH	NASA'S	REE	VALU	ATION	DUE	то	FUEL	CELI	SAI	FINC	G

ASSESSME ASSESSME NASA FME	NT I	D:	6/06/8 EPD&C- 05-6-3	-5033					NASA DAT BASELII NI	NE	[[x]	
SUBSYSTE MDAC ID:			EPD&C 5033 RPC,	7.5A	(DC	TIE	BUS M	AIN	A)				
LEAD ANA	LYST	r:	K. SC	HMEC	KPEPI	ER							
ASSESSME	ENT:												
		TICAL FLIGH		R	EDUNI	DANCY	SCRE	ENS			CIL ITEN	ч	
	_	DW/FU		A	В	1		С			•		
NASA IOA	[:	3 /3 3 /3]]]	[]]]		[] *	
COMPARE	[/]	[]	[]	[]		[]	
RECOMMEN	NDAT:	ions:	(If	dif	fere	nt fr	om NA	SA)					
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* CIL RI		TION	RATION	ALE:	(If	appl	icabl.		ADEQUAT IADEQUAT		[]	
REMARKS	:												

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5034	4 B−1	NASA DATA: BASELINE NEW	
	EPD&C 5034 RPC, 7.5A	(DC TIE BUS MAIN	v A)	
LEAD ANALYST:	K. SCHMEC	KPEPER		
ASSESSMENT:				
CRITICAL: FLIGHT		EDUNDANCY SCREENS	5	CIL ITEM
HDW/FU		В	С	TIEM
NASA [3 /1R IOA [3 /3] [P] [AN] [P]	[] *
COMPARE [/N] [N] [] [N]	[]
RECOMMENDATIONS:	(If dif	ferent from NASA)	+ 	
] [] [] [] (AD	[DD/DELETE)
* CIL RETENTION B	RATIONALE:		ADEQUATE IADEQUATE	[]
REMARKS: IOA CONCURS WITH WITH INADVERTENT				

ASSESSME ASSESSME NASA FME	ENT I		EPD	/87 C-503 5-2387				ì	NASA DAT BASELIN NI	1E []
	SUBSYSTEM: EPD&C MDAC ID: 5035 ITEM: RPC, 7.5A (MAI LEAD ANALYST: K. SCHMECKPEPE							A F,	C PWR)		
LEAD ANA	ALYST	:	к. 5	CHME	CKPEP	ER					
ASSESSMI	ENT:										
	CRIT			F	REDUN	DANCY	SCR	EENS		CI	L EM
		LIGH W/FU		I	A	F	3	(3	11	
NASA IOA	-	/3 /3]]]	[]	[]]] *]
COMPARE	[/]	[]	[]	[]	[]
RECOMMEN	NDATI	ons:	(1	f di	ffere	nt fi	om N	ASA)			
	[/]	[]	[]	[]	[(A DD/] DELETE
* CIL RI		ION	RATIO	ONALE:	: (If	appl	licab	1	ADEQUATI ADEQUATI]

ASSESSME	NT	DATE:	6/13/	87				N2	ASA DATA	: : :	
ASSESSME NASA FME	NT A#	ID: :	EPD&C 05-6-	-503 2387	86 7A-1			I	BASELINE NEW	•	•
SUBSYSTE MDAC ID: ITEM:			EPD&C 5036 RPC,		A (MI	AIN DC	BUS	A F/0	PWR)		<u> </u>
LEAD ANA	LYS'	T:	K. sc	HME	KPE	PER		. 🛥			
ASSESSME	NT:										
	:	TICAL FLIGH DW/FU	T	F		NDANCY B	SCR	EENS C		CII	
NASA IOA	[3 /1R 3 /3]	[])]	[N2	\]	[P]	[] *]
COMPARE	[/N]	[]	1]	[И]	[N]	[]
RECOMMEN	DAT	ions:	(If	dif	fere	ent fro	om N	ASA)			
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* CIL RE	TEN'	rion :	RATION	ALE:	(Ii	f appli	cab	AI	EQUATE EQUATE	[]
REMARKS: IOA CONC CONCERNS		WITH	NASA'	S RE	EVAI	LUATION	T DU	Е ТО Е	TUEL CELI	SA	FING

ASSESSME ASSESSME NASA FME	NT I	D:	6/13/ EPD&0 05-6-	-503				ľ	IASA DA BASELI N		[]	
SUBSYSTE MDAC ID:	м:		EPD&0 5037 RPC,		(MA	IN DC	BUS	A F,	C PWR)				
LEAD ANA	LYST	! :	K. S	CHMEC	KPEP	ER							
ASSESSME	NT:												
	F	'ICAL 'LIGH	T			DANCY	SCRE				CIL ITE		
	HD	W/FU	NC	A		В		(
NASA IOA	[3	/3]]]	[]	[]		[]	*
COMPARE	[/]	[]	[3	[]		[]	
RECOMMEN	DATI	ons:	(I:	f dif	fere	nt fr	om NA	SA)					
	[/]	[]	[]	ί]	(AI	[D/D] ELE	TE)
* CIL RE	TENT	NOI	RATIO	NALE:	(If	appl	icabl	7	ADEQUAT		[.]	

REMARKS:

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/13/87 EPD&C-5038 05-6-2387B-1	NASA DATA: BASELINE NEW	[]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5038 RPC, 7.5A (MAIN DC BUS A	F/C PWR)	
LEAD ANALYST:	K. SCHMECKPEPER		
ASSESSMENT:			
CRITICAL FLIGHT	ITY REDUNDANCY SCREENS	5	CIL
HDW/FU		С	ITEM
NASA [3 /1R IOA [3 /3] [P] [NA] [] [] [P]	[] *
COMPARE [/N] [и] [и] [иј	[]
RECOMMENDATIONS:	(If different from NASA)) 	
[/] [] [] [] (AD	[] D/DELETE)
* CIL RETENTION H	RATIONALE: (If applicable)	10000	
	II	ADEQUATE IADEQUATE	[]
WITH INADVERTENT	NASA'S REEVALUATION DUE TO POWER ON THE PREFLIGHT TES OM THE FUEL CELL. IF A BUS WOULD BE LOST.	T BUS WOUL	D DISCONNECT

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/04/87 EPD&C-5039 05-6-2207			NASA DATA BASELINE NEW]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5039 DIODE, IS	OLATION	35A			
LEAD ANALYST:	K. SCHMEC	KPEPER		# : : : : : : : : : : : : : : : : : : :		5.7
ASSESSMENT:						
CRITICAL FLIGH		EDUNDAN	CY SCREE	ens	CIL	
HDW/FU		•	В	С		••
NASA [3 /3 IOA [3 /3] []	[]	[] *
COMPARE [/] [] [1	נ ז	[]
RECOMMENDATIONS:	(If dif	ferent	from NAS	sā)		
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* CIL RETENTION	RATIONALE:	(If ap	plicable	ADEQUATE INADEQUATE	[]
REMARKS:				THADEQUATE	Ĺ	J

ASSESSMENT DATASSESSMENT ID:		-5039				N	ASA DA' BASELII N]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5039 DIODE		LATI	CON 3	5A		**\$			
LEAD ANALYST:	K. SC	HMECH	(PEPI	ER						
ASSESSMENT:										
FL	CALITY		EDUNI		SCREI				IL TEM	,
. HDW/	FUNC	A		В	-	C		-		
NASA [3 / IOA [3 /	'1R] '1R]	[P]	[N.	A] A]	[P]	[[] *]
COMPARE [/	']	[]	C]	[]	[]
RECOMMENDATION	ıs: (If	diff	erer	nt fr	om NAS	SA)				
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* CIL RETENTIO	N RATION	ALE:	(If	appl	icable	A	DEQUATI DEQUATI]
REMARKS:						±11/11		- į		J

ASSESSMENT DATE: 6/19/87 ASSESSMENT ID: EPD&C-5040 NASA FMEA #: 05-6-2207-2										ASA DA BASELI N		•]	
SUBSYSTE MDAC ID:			EPD&C 5040 DIODE	, IS	SOLA	TION	35	5A						
LEAD ANA	LYST	:	K. SC	HME	CKPE	PER								
ASSESSME	NT:													
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C														
	HD	W/FU	NC	2	Ą		В		C					
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COMPARE	[/N]	[]	4]	τ	N]	[N]	([]	
RECOMMEN	DATI	ons:	(If	di	ffer	ent :	fro	om N	ASA)					
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* CIL RE	TENT	ION	RATION.	ALE	: (I	f ap	p1 :	Lcab	le)					
DEMI DEG.				•						DEQUAT		[]	
REMARKS: IOA CONC OF THE P						CONC	ERI	NS A	BOUT	INADVE	RTE	T	POI	WERING

ASSESSME ASSESSME NASA FME	nt 1	D:		-504				ì	VASA DA BASELI N		[x]	212
SUBSYSTE MDAC ID: ITEM:	M:		EPD&C 5041 DIODE	, IS	TAJC	ION 3	5 A							
LEAD ANA	LYSI	C:	K. SC	HMEC	KPEP	ER								
ASSESSME	NT:													
	I	TICAL LIGH	T		EDUN	DANCY	SCRE		_		CI	L EM	I	
	HI)W/FU	NC	A		В		(2					
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COMPARE	[/]	[]	[]	[]		[]	
RECOMMEN	DATI	ons:	(If	dif	fere	nt fr	om NAS	SA)						
	[/	1	Į.]	[]	[1	(AI	[DD/	'DE] :LE	TE
* CIL RE	TENT	CION	RATION	ALE:	(If	appl:	icable	I	ADEQUAT:		[]	
REMARKS:								7145	-DUKOUI.	_	L		j	

ASSESSME ASSESSME NASA FME	NT	II		ΕI	7/01/87 PD&C-5041A 05-6-2207-3									ASA I BASEI		[]	
SUBSYSTE MDAC ID: ITEM:	M:			50	PD&C 041 CODE	,]	cso	OLAT	'IOI	N	35A								
LEAD ANA	LYS	ST	:	ĸ.	sci	IMI	ECI	KPEP	ER										**
ASSESSME	NT	:																	
	CR:		ICAL: LIGH:		Č		RI	EDUN	[DA]	NC	Y SCRE	EN	S				IL PEM	I	
]	HDI	W/FUI	NC			A				В		С						
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COMPARE	[/]		[]		[]	[]		[]	
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* CIL RE	TE	NT:	ION :	RA!	CION	AL	E:	(If	: a	ΡĮ	olicabl			DEQU DEQU		[]	
REMARKS:												-	_ • • • •			L		•	

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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5042	NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5042 DIODE, ISOLATION	I 35A	
LEAD ANALYST:	K. SCHMECKPEPER		
ASSESSMENT:			
CRITICAL FLIGH		ICY SCREENS	CIL ITEM
HDW/FU	NC A	ВС	
NASA [3 /1R IOA [3 /3] [P] [NA] [P]	[] *
COMPARE [/N] [N][[и] [и]	[]
RECOMMENDATIONS:	(If different	from NASA)	
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* CIL RETENTION	RATIONALE: (If ap	plicable) ADEQUATE INADEQUATE	
REMARKS: IOA CONCURS WITH OF THE PREFLIGHT		EERNS ABOUT INADVERT	•

ASSESSME ASSESSME NASA FME	NT ID:	EPD&C 05-6-	-504				N	ASA DAT BASELIN NE	E [x]
SUBSYSTE MDAC ID:	M:	EPD&C 5043 DIODE		OLAT:	ION 3	5 A			· -	
LEAD ANA	LYST:	K. SC	HMEC	KPEP	ER					
ASSESSME	NT:									
	CRITICA FLIG		R	EDUN	DANCY	SCR	EENS		CII ITI	
η	HDW/F		A		E		C	2		
NASA IOA	[3 /3 [3 /3]	[]	[.]]]	[[] *]
COMPARE	[/]	[]	[3	ι	1	[
RECOMMEN	DATIONS	: (If	dif	fere	nt fr	om N	ASA)			
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* CIL RE		RATION	ALE:	(If	appl	.icab	I	ADEQUATI ADEQUATI]
REMARKS:										

ASSESSMENT	DATE:	7/01/8	37					NASA DA	TA:				
ASSESSMENT NASA FMEA	ID:	EPD&C- 05-6-2	-5043					BASELI		[X]	
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5043 DIODE,	, ISC)ITAIC	on :	35A							
LEAD ANALY	ST:	K. SCH	IMECI	KPEPE	R								
ASSESSMENT	:												
	ITICALI FLIGHT	ľ		EDUNDA		SCREE		· .		CI IT	L EM		
•	HDW/FUN	NC	A		i	3		С					
NASA [IOA [3 /1R 3 /1R	†]	[P]	[]	NA] NA]		P] P]]	:] *]	
COMPARE [/]	[]	[]	[1		[)	
RECOMMENDA'	TIONS:	(If	difi	erent	t fi	om NAS	SA)						
	/]	[]	[]	[]	(AD	[D/	DEI] LET	E)
* CIL RETE	NTION F	RATIONA	LE:	(If a	app]	licable	1	ADEQUAT		[-]	
REMARKS:							TN	ADEQUAT	Ľ	L		1	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5044 DIODE, ISOLATION	35 A	
LEAD ANALYST:	K. SCHMECKPEPER		
ASSESSMENT:			
CRITICAL FLIGH	ITY REDUNDANG T		CIL ITEM
HDW/FU	NC A	ВС	
NASA [3 /1R IOA [3 /3	[P] [] [] [NA] [P]] []	[] *
COMPARE [/N] [и] [и] [и]	[]
RECOMMENDATIONS:	(If different	from NASA)	
, , [/] [] [] [] (A	[] DD/DELETE)
* CIL RETENTION	RATIONALE: (If app	plicable) ADEQUATE INADEQUATE	[]
REMARKS: IOA CONCURS WITH OF THE PREFLIGHT		ERNS ABOUT INADVERT	•

ASSESSMEN	T DATE:	6/19/8	37				N.	asa da ⁴	TA:	• •	
ASSESSMEN NASA FMEA	T ID:	EPD&C- 05-6-2	-504					BASELI N		[X]
SUBSYSTEM MDAC ID: ITEM:	=	EPD&C 5045 DIODE,	. IS	OLATI	ON 3	5 A					
LEAD ANAL	YST:	K. SCH	IMECI	KPEPE	R						
ASSESSMEN	T:										
C	RITICALI FLIGHT HDW/FUN	ŗ	RI A		ANCY B	SCRE				CIL ITEN	1
NASA IOA	[3 /1R [3 /3]	[P]	[N.	A]	[P]		[] *
COMPARE	[/N]	[N]	[N]	[N]		[]
RECOMMEND	ATIONS:	(If	difi	feren	t fr	om NAS	SA)				
	[/]	[}	[]	[(AD	[D/DE] ELETE)
* CIL RET	ENTION F	ANOITAS	LE:	(If	appl	icable	Al	DEQUATI DEQUATI		[]
REMARKS:										•	J

IOA CONCURS WITH NASA DUE TO FUEL CELL SAFING CONCERNS.

ASSESSMENT DATE: 7/01/87 ASSESSMENT ID: EPD&C-5045A NASA FMEA #: 05-6-2207-3											SA DAT. BASELIN NE	E (X]		
SUBSYSTE MDAC ID:	M:		EPI 504 DIC	5	IS	SOL	ATION	35	A							
LEAD ANA	LYST	:	ĸ.	SCH	ME	CKP	EPER									
ASSESSME	NT:											-				
	CRIT	ICAL LIGH		•	1	REDI	UNDAN	CY	SCR	EENS	3			CIL [TEN		
	_	W/FU			2	A		В			С		•		•	
NASA IOA	[3 [3	/1R /1R]		[]	P]	[NA NA	.] .]	[P P]		[[]	*
COMPARE	[/]		[]	[]	[1	ļ	[]	
RECOMMEN	DATI	ons:	ı	(If	di	ffe	rent	fro	m N	ASA)			•		. *
	. [/]		[]	(]	[] (ADI	[D/D]] ELF	ETE
* CIL RE	TENT	ION	RAT:	EON?	LE	: (If ap	pli	.cab			DEQUATE		[]	
REMARKS:							-		v = .	I	IAN	DEQUATE	;	[]	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/19/87 EPD&C-5046 05-6-2207-2	NASA DATA BASELINE								
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5046 DIODE, ISOLATION									
LEAD ANALYST:	K. SCHMECKPEPER									
ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM										
HDW/FU	IC A	В С								
NASA [3 /1R IOA [3 /3] [P] [] [] [NA] [P]] []	[] *							
COMPARE [/N] [N][и] [и]	[]							
RECOMMENDATIONS:	(If different f	from NASA)								
[/] [] [] [] (A)	[] DD/DELETE)							
* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [] INADEQUATE []										
REMARKS: IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING OF THE PREFLIGHT TEST BUS.										

ASSESSMENT ASSESSMENT NASA FMEA #	TD:		047		[x]					
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5047 SWITCH,	TOGGLE	SPDT (MAI	N BUS TIE A)					
LEAD ANALYST: K. SCHMECKPEPER										
ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM										
H	IDW/FUN	ic	A	В	С					
NASA [IOA [3 /1R 2 /1R]	[P] [P]	[NA] [P]	[P] [P]	[x] *				
COMPARE [N /]	[]	[N]	[]	[и]				
RECOMMENDAT	cions:	(If o	different	t from NAS	SA)					
	/]	[]	[]	[] (A)	[] DD/DELETE)				
* CIL RETEN	TION F	RATIONA	LE: (If a	applicable	e) ADEQUATE INADEQUATE	[]				
REMARKS: NASA HAS RI IN "OFF" PO IS A STANDI	OSITION	IOA	FAILURE CONCURS	MODE AS: WITH NASA	FAILS OPEN, A'S REEVALUA'	FAILS CLOSED FION AS THIS				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/05/8 EPD&C-5 05-6-22	-5047A BASELINE [
	EPD&C 5047 SWITCH,	TOGGLE	E SPDT (MA	AIN BUS TIE	A)			
LEAD ANALYST: K. SCHMECKPEPER								
ASSESSMENT:								
CRITICAI FLIGH HDW/FU	T	REDUNI A	DANCY SCRE	EENS C	CIL ITEM			
NASA [2 /1F IOA [2 /1F		P] P]	[NA] [NA]	[P] [P]	[X] * [X]			
COMPARE [/] []	[]	[]	[]			
RECOMMENDATIONS:	(If d	ifferer	nt from NA	SA)				
[/] []	[]	[]	[] ADD/DELETE			
* CIL RETENTION	RATIONALI	E: (If	applicabl	e) ADEQUATE INADEQUATE	: [X]			
REMARKS:				THADEQUATE	· []			

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	EPD&C-5048	EPD&C-5048 BASELINE							
SUBSYSTEM: EPD&C MDAC ID: 5048 ITEM: SWITCH, TOGGLE SPDT (MAIN BUS TIE A)									
LEAD ANALYST: K. SCHMECKPEPER									
ASSESSMENT:									
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C									
HDW/F	UNC A	D	C						
NASA [3 /1 IOA [2 /1	R] [P R] [P] [NA] [] [P] [P] [X]						
COMPARE [N /] [] [N] [] [n]						
RECOMMENDATIONS	: (If diff	erent from NASA)						
] [] [] [] [] (ADD/DELETE)						
* CIL RETENTION	RATIONALE:	(If applicable)							
ADEQUATE [] INADEQUATE []									
REMARKS: NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS CLOSED IN "ON" POSITION, SHORTS (CONTACT TO CONTACT). IOA CONCURS WITH NASA'S REEVALUATION.									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:				NASA DATA: BASELINE [] NEW [X]						
	EPD&C 5049 SWITCH, T									
LEAD ANALYST: K. SCHMECKPEPER										
ASSESSMENT:										
CRITICAL FLIGH	ITY F	REDUNDANC	Y SCREE	NS	CIL ITEM					
HDW/FU	-	1	В	С	TIEM					
NASA [2 /1R IOA [3 /1R] [F	?][NA] P]	[P] [P]	[X] * []					
COMPARE [N /] [] [N]	[]	[N]					
RECOMMENDATIONS:	(If dif	ferent f	rom NAS	A)						
[/] [] []	[] (AD	[] DD/DELETE)					
* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE []										
REMARKS: NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS TO TRANSFER TO "OFF", SHORTS TO GROUND, FAILS CLOSED IN "ON". IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.										

ASSESSMENT DA ASSESSMENT II NASA FMEA #:	ATE: 12 D: El O:	2/05/87 PD&C-505 5-6-2211	50 .−3				SA DATA: SASELINE NEW	[
SUBSYSTEM: MDAC ID: ITEM:	50	PD&C 050 WITCH, I	OGGLE	SPDT	(FC/	MN E	BUS A)				
LEAD ANALYST: K. SCHMECKPEPER											
ASSESSMENT:							.3.44.5				
F	LIGHT	Y F				ns C		CI			•
NASA [2 IOA [3	/1R] /1R]	I] I]	?]	[P]	[P]	[X]	*
COMPARE [N	/]	ι]	[]	[]	[N]	
RECOMMENDATION	ons:	(If dia	fferent	fro	om NAS	A)					
. [/]	[]	[]	[] (AI		'DE		TE)
* CIL RETENT	ION RA	TIONALE	: (If a	appli	cable	Αľ	DEQUATE DEQUATE				
REMARKS: NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS CLOSED IN "OFF" POSITION. IOA CONCURS WITH NASA'S REEVALUATION AND AGREES THAT THIS FAILURE IS CRIT 1 DURING INTACT ABORT.											

ASSESSMENT DATE: 1/01/88 ASSESSMENT ID: EPD&C-5051 NASA FMEA #: 05-6-2241-1							NASA DATA: BASELINE [] NEW [X]														
SUBSYSTE MDAC ID: ITEM:				50	D&C 51 RCU	ГT	ВІ	REAK	ER,	5	5 A '	THER	ZMZ	AL.	(M	AIN	ΙA	C	тис	R)	
LEAD ANA	LYS	ST:	:	ĸ.	SCI	IMI	ECI	KPEP	ER												
ASSESSME	NT:	;																			
	CRI		ICAL LIGH		•		RI	EDUN	DAN	CY	S	CREE	NS	3					[L CEM		
	F		/FU				A			E	3			C							
NASA IOA	[3	/1R /1R]		[P P]	[N F	[A]]	P P]			[]	*
COMPARE	[/]		[]	[N	ı j		[]			[]	
RECOMMEN	ľADI	CIC	ons:		(If	d :	ifi	fere	nt	fr	om	NAS	A))							
-	[/]		[]	[)		[]		(A	[DD/	/DE] LE	TE
* CIL RE		T	ON .	RAT	IONA	L	Ξ:	(If	ap	pl	ic	able	•			UAT UAT] .]	
IOA CONC		5 V	VITH	NA	SA'S	5 5	SCI	REEN	"B	· .											

ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5052 NASA FMEA #: 05-6-2241-2							NASA DATA: BASELINE [] NEW [X]							
SUBSYSTEM: EPD&C MDAC ID: 5052 ITEM: CIRCUIT BREAKER, 5A THERMAL (MAIN A								A	CON	TR)				
	LEAD ANA	LYST	:	K. SC	HMEC	KPEPE	R							
	ASSESSME	NT:												
		CRIT	ICAL LIGH		R	EDUNI	DANCY	SCRE	ENS			CIL		
	₩ _a · · ·	_	W/FU		A		В		С		-			
	NASA IOA	[3 [3	/3 /3]] []	[]	[]		[] *]	
	COMPARE	[/	1	[]	ſ]	[]		[]	
	RECOMMEN	DATI	ons:	(If	dif	ferer	nt fr	om NA	SA)					
		[/]	[]	[] .	[1	(A)	[DD/D] ELET	E)
	* CIL RE	-	ION	RATION	ALE:	(If	appl	icabl	A	DEQUAT DEQUAT		[]	
	REMARKS:													

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		ASA DATA: BASELINE [NEW []					
	EPD&C 5053 DIODE, ISOLATIO		set				
LEAD ANALYST:	K. SCHMECKPEPER		<u> </u>	er er			
ASSESSMENT:			i is the fire	1.14.20			
CRITICALI FLIGHT		NCY SCREENS	CII				
HDW/FU	IC A	В	:				
NASA [2 /1R IOA [3 /1R	[P]	[NA] [F [F] [F		(] * (]			
COMPARE [N /] []	[и]] []			
RECOMMENDATIONS:	(If different	from NASA)					
[/] []	[] [] [(ADD/E] DELETE)			
* CIL RETENTION F	RATIONALE: (If a	A	DEQUATE [X	(]			
NASA HAS ADDED THE IOA CONCURS WITH CONCERNS.							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-505			NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5054 DIODE, IS	OLATIO	N 12A		
LEAD ANALYST:	K. SCHMEC	KPEPER			
ASSESSMENT:					
CRITICAL FLIGH		EDUNDA	NCY SCRE	ens	CIL ITEM
HDW/FU	-		В	С	
NASA [3 /1R IOA [3 /3	[P]	[NA] []	[P] []	[] *
COMPARE [/N) [N]	[и]	[N]	[]
RECOMMENDATIONS:	(If dif	ferent	from NA	SA)	
] []	[]	[] (A	[] ADD/DELETE)
* CIL RETENTION	RATIONALE:	(If a	pplicabl	e) ADEQUATE INADEQUATE	
REMARKS: IOA CONCURS WITH	NASA AFTE	R FURT	HER EXAM	INATION OF T	HE CIRCUIT.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5055	NASA DATA: BASELINE [] NEW [X]							
	EPD&C 5055 DIODE, ISOLATI	ON 12A							
LEAD ANALYST: K. SCHMECKPEPER									
ASSESSMENT:									
CRITICAL: FLIGHT	r	ANCY SCREENS	5	CIL ITEM					
HDW/FU	NC A	В	C						
NASA [2 /1R IOA [3 /3] [P]] []	[NA] [[] [P]	[X] *					
COMPARE [N /N] [N]	[14]	N]	[N]					
RECOMMENDATIONS:	(If differen	t from NASA)						
] []	[] [[] DD/DELETE)					
* CIL RETENTION F	RATIONALE: (If a	applicable)	ADEQUATE	[X]					
		I	NADEQUATE						
REMARKS: IOA CONCURS WITH NASA AFTER LEARNING OF FUEL CELL SAFING CONCERNS.									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5056	EPD&C-5056 BASELIN 05-6-2184-1 NE									
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5056 DIODE, ISC	OLATIC	N 12A								
LEAD ANALYST:	K. SCHMECI	KPEPER	Ł								
ASSESSMENT:											
CRITICAL FLIGH	T	NCY SCREI		CIL ITEM							
HDW/FU	NC A		В	С							
NASA [3 /1R IOA [3 /1R] [P] [P]	[NA] [F]	[P] [P]	[X] *						
COMPARE [/] []	[N]	[]	[N]						
RECOMMENDATIONS:	(If dif	ferent	from NAS	SA)							
[, /], [] .	[]	[]	[] ADD/DELETE)						
* CIL RETENTION	RATIONALE:	(If a	applicable	e) ADEQUATE INADEQUATE	•						
REMARKS: NASA HAS ADDED T	HE FAILURE	MODE	"SHORTS	ro ground" I	O THIS FMEA						

IOA CONCURS WITH NASA AFTER FURTHER EXAMINATION OF THE CIRCUIT.

ASSESSME NASA FME	INT	ID:	EPD		7			LINE [] NEW [X]				
SUBSYSTE MDAC ID: ITEM:	-		EPD 505 CIR	7	REAI	KER, 5A (MN A CONTR)					
LEAD ANA	LYS	T:	к. 8	SCHMEC	KPEI	PER	i nir .	- -				
ASSESSME	NT:							s de la companya de				
		FLIG				IDANCY SC		CIL ITEM				
	п	DW/F	UNC	A		В	С					
NASA IOA	[[2 /1 3 /1	R] R]	[P]	[F] [P]	[P] [P]	[X] * []				
COMPARE	[N /]	[]	[N]	[]	[N]				
RECOMMEN	DAT	IONS	: (1	f dif	fere	ent from	NASA)					
-	[/]	[]	[]	[]	[] (ADD/DELETE)				
* CIL RE	TEN'	TION	RATIO	NALE:	(If	applical		TE [X]				
		WIT	H NASA	'S RE	EVAI	UATION DO	UE TO FUEL (CELL SAFING				

ASSESSME ASSESSME NASA FME	NT ID:	6/06/87 EPD&C-50 05-6-220			NASA DA' BASELII N]	
SUBSYSTE MDAC ID:	M:	EPD&C 5058 CIRCUIT	BREAKI	ER, 5A	(MN)	A CONTR)		
LEAD ANA	LYST:	K. SCHM	ECKPEPI	ER				
ASSESSME	NT:							
	CRITICAL FLIGH HDW/FU	T	REDUNI A	DANCY B	ns C	CIL		
NASA IOA	[3 /3]]]	[]	[] *
COMPARE	[/] []	£ .]	[]	[]
RECOMMEN	DATIONS:	(If d	iffere	nt fro	m NAS	A)		
	[/] [1]	[]	[(ADD/E] ELETE)
* CIL RE	TENTION	RATIONAL	E: (If	appli) ADEQUAT INADEQUAT]

REMARKS:

ASSESSMEI NASA FMEZ	NT I	D:	12/07/ EPD&C- 05-6-2	-505		-		1	NASA DA' BASELI N		[]	
SUBSYSTEM MDAC ID: ITEM:			EPD&C 5059 FUSE,	35A										
LEAD ANA	LYST	':	K. SCI	IMEC	KPEPI	ER								
ASSESSME	YT:													
(F	ICALI LIGHT		R A		DANCY E	SCR		3	1- / <u>1</u> 1	CI	:L :EN	1	-
NASA IOA	[3	/1R /1R]	[P]	[F	;] ;]	[]	P]		[X X]	*
COMPARE	[/]	[]	[]	[]		[]	
RECOMMENI	DATI	ons:	(If	dif	ferer	nt fr	om N	ASA)						
-	[1 -	J	[]	[]	[]	(AD		'DE		TE)
* CIL RET	PENT:	ION R	RATION?	ALE:	(If	appl	icab:	P	ADEQUATI ADEQUATI		[X]	

ASSESSMENT DATE: 12/07/87 ASSESSMENT ID: EPD&C-5060 NASA FMEA #: 05-6-2278-1 SUBSYSTEM: EPD&C													ASA DATA BASELINI NEV	E		x]	
SUBSYSTEMDAC ID:	M:			EPD&C 5060 FUSE,		1												
LEAD ANA	LY	ST	:	K. SC	нмес	K	PEPEI	3										
ASSESSME	NT	:																
CRITICALITY REDUNDANCY SCREENS FLIGHT													L EN	4				
]	_		NC	F	A.			в с							L	1	
NASA IOA	[2	/1R /1R]	[I	?]]	F F]	[P P]] [X X]	*
COMPARE	[N	/]	[]	[]	[]		[]	
RECOMMEN	'DA'	ΤI	ons:	(If	di	ff	eren	t :	fro	om NA	SA)						
	[/]	[]	[]	[] (ΑD		/DI		ETE)
	* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE []																	
REMARKS: IOA CONC INFORMAT																		

ASSESSME ASSESSME NASA FME	NT	ΙĎ		EF	D&C-	-5(5061 BASEL									[
SUBSYSTE MDAC ID: ITEM:				50	D&C 61 SE,	3!	5A							r			21			
LEAD ANA	LYS	T:		ĸ.	SCI	IMI	ECI	(PEP	ER											
ASSESSME	NT:																			
			CALI				RI	EDUN	DAN	CY	SCI	REEN	IS				[L			
			IGHT /FUN				A			В			С			1.	ΓEM	1		
NASA IOA	[[2	/1R /1R]]		[P P]	[F F]	[P]		[X X]	*	
COMPARE	[N .	/]		[]	[]	(•	1		נ]		
RECOMMEN	DAT	IO	NS:		(If	đi	Ĺfſ	ere	nt	fro	om 1	NASA	۲)							
	[,	/]		[]	[]	(]	(AI		/DE		TE)	
* CIL RE	TEN	TI	ON F	TAS	IONA	L	Ξ:	(If	ap	pl:	icak	•	A	DEQUA' DEQUA'		[x]		
REMARKS: IOA CONC														~		٠	IIN	IG J	MOR	E

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/07/87 EPD&C-50 05-6-227	062							
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5062 FUSE, 35	5 A							
LEAD ANALYST:	K. SCHME	ECKPEPER							
ASSESSMENT:									
CRITICAL: FLIGH		REDUNDANC	Y SCREENS	5	CIL ITEM				
HDW/FU		A I	В -	C					
NASA [2 /1R IOA [3 /1R] [P] []	F] [F] [P] P]	[X] *				
COMPARE [N /] [] [] []					
RECOMMENDATIONS:	(If d	ifferent f	rom NASA)					
[/] [] [] [] (Al	[] DD/DELETE)				
* CIL RETENTION	RATIONAL	E: (If app		ADEQUATE NADEQUATE	[X]				
REMARKS: IOA CONCURS WITH INFORMATION ABOU	NASA'S 1 T EMERGE	REEVALUATI NCY FUNCTI	ON DUE TO	O AFTER LE	ARNING MORE				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/06/87 EPD&C-506 05-6-2280										
SUBSYSTEM: MDAC ID: ITEM: (RCS/OMS HTRS)	EPD&C 5063 FUSE, 15A										
LEAD ANALYST:	K. SCHMEC	KPEPER									
ASSESSMENT:											
CRITICAL FLIGH		EDUNDANCY SCR	eens	CIL ITEM							
HDW/FU	_	В	С								
NASA [2 /1R IOA [3 /2R] [P]] [P]	[P] [P]	[X] * []							
COMPARE [N /N] [] []	[]	[N]							
RECOMMENDATIONS:	(If dif	ferent from N	ASA)								
. [/] [] []	[]	[] ADD/DELETE)							
* CIL RETENTION 1	RATIONALE:	(If applicab)	le) ADEQUATE INADEQUATE	[X]							
REMARKS: IOA CONCURS WITH THE CIRCUIT.	NASA'S REI	EVALUATION AFT	TER FURTHER E	EXAMINATION OF							

ASSESSME ASSESSME NASA FME	NT	ID:	EPD	&C-5		NASA DATA: 664 BASELINE [] 01-1 NEW [X]										
SUBSYSTE MDAC ID: ITEM: BUS SOUR		ЗАВ,	EPD 506 FUS ESS B	4 E, 52	I A	O R	ESIS 2CA	STO	RS	то м	N A	CONT	BUS	P	WR,	ESS
LEAD ANA	LYS	T:	K.	SCHM	ECF	PEP	ER									
ASSESSME	NT:															
	CRI		REDUNDANCY S									L	I			
	H	IDW/F	UNC		A			В			С					
NASA IOA	[3 /1 3 /1	.R] .R]	[[P P]	[P F]]	P] P]		[x] *]	
COMPARE	[/]	[]	[N]	[]		[N]	
RECOMMEN	DAT	IONS	S: (If d	ifi	ere	nt	fr	om N	IASA)						
-	[/	1	Ţ]	[]	[]	(A] \DD/	DE] LET	E)
* CIL RE		TION	RATI	ONAL	E:	(If	ap	pl:	icak			UATE UATE]	
REMARKS:		. WIT	TH NAS	A'S	SCI	REEN	г "В	" .								

ASSESSMENT DA ASSESSMENT ID NASA FMEA #:	EPD&C-	-5065		BASELINE	:
SUBSYSTEM: MDAC ID: ITEM: (RESISTORS) &				SE 1),RMS HT	RS
LEAD ANALYST:	K. SCI	MECKPEPE:	R		
ASSESSMENT:					
CRITI	CIL ITEM				
	IGHT /FUNC	A	В	C	IIEM
NASA [3 IOA [2	/1R] /1R]	[P] [P]	[P] [F]	[P] [P]	[
COMPARE [N	/]	[]	[и]	[]	[N]
RECOMMENDATIO	NS: (If	differen	t from NA	SA)	
. [/]	[]	[]	[]	[] DD/DELETE)
* CIL RETENTI	ON RATIONA	ALE: (If a	applicable	e) ADEQUATE INADEQUATE	
REMARKS: IOA CONCURS W THE CIRCUIT.	ITH NASA'S	S REEVALUA	ATION AFT		

	NT	II	TE: 6/04/87 NASA DATA: 0: EPD&C-5066 BASELINE 05-6-2181-1 NEW											[
SUBSYSTEMDAC ID:	M:			50		Į	sc	LAT	ION	1.	2 A ((TO	CO	NT BI	US B	C1)			•
LEAD ANA	LYS	ST	:	ĸ.	SCE	IME	CK	PEPI	ER										
ASSESSME	NT:	:																	
	CR:		ICAL		7		RE	EDUNI	DAN	CY	SCF	REE	NS	-		CI	L EM	ſ	
·	I		LIGH'				A			В			С				. 1.1.1	•	
NASA IOA	[3	/1R /1R]		[P P]]	F F]		[P [P]		[[X X]	*
COMPARE	[/]		[]	[]		(]		[]	
RECOMMEN	DA!	ri	ONS:		(If	di	ff	ere	nt	fr	om 1	NAS	A)						
	[/]		[]	[]		[]	(A	[.DD/	'DE] ELE	TE)
* CIL RE	TE	NT:	ION :	RAI	CION	ALE	:	(If	ap	pl	ical		A	DEQU DEQU			x]	
REMARKS: NASA HAS IOA CONC	A		ED T	HE	FAI	LUR	Έ	MOD	E"	SH	ORTS	s T	0 G	ROUN	D" I	r o'	Hİ	S	FMEA.

ASSESSME ASSESSME NASA FME	NT :	ID:	6/19/ EPD&C 05-6-	-506			NASA DATA: BASELINE [] NEW [X]								
SUBSYSTE MDAC ID: ITEM:			EPD&C 5067 DIODE	, IS	OLAT:	ION 1	.2A (T	o co	онт і	BUS :	BC1)				
LEAD ANA	LYS	T:	K. SC	HMEC	KPEP:	ER									
ASSESSME	NT:														
		SCRE				CII									
	H	DW/FU	NC	A		Е	3	(2						
NASA IOA	[3 /3 3 /3]	[]	[]	[]		[] *			
COMPARE	[/]	[]	[]	[]		[]			
RECOMMEN	DAT:	ions:	(If	dif:	fere	nt fr	om NA	SA)							
-	[/]	[]	[]	[1	(2	[ADD/E] ELETE			
* CIL RE	TEN:	rion	RATION	ALE:	(If	appl	icabl	I	ADEQU ADEQU		•]			
REMARKS:									_		•	-			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5068		NASA DATA BASELINE NEW	
	EPD&C 5068 DIODE, ISO	LATION 12A	(TO CONT BUS E	3C2)
LEAD ANALYST:	K. SCHMECK	PEPER		
ASSESSMENT:				
CRITICAL		DUNDANCY SC	REENS	CIL ITEM
FLIGH HDW/FU		. B	С	IIIM
NASA [3 /1R IOA [3 /1R	[P] [F]	[P] [P]	[X] * [X]
COMPARE [/] [] []	[]	[]
RECOMMENDATIONS:	(If diff	erent from	NASA)	
. [/] [] []	[]	[ADD/DELETE)
* CIL RETENTION	RATIONALE:	(If applica	ble) ADEQUATE INADEQUATE	
REMARKS: NASA HAS ADDED T IOA CONCURS.	HE FAILURE	MODE "SHORT	S TO GROUND" 1	TO THIS FMEA.

ASSESSME ASSESSME NASA FME	NT	ID:	6/19/ EPD&C 05-6-	-506				1	NASA DAT BASELIN NE		j
SUBSYSTE MDAC ID: ITEM:			EPD&C 5069 DIODE		OLAT	נ מסוי	L2A (то со	ONT BUS	BC2)	
LEAD ANA	LYS	T:	K. SC	нмес	KPEP	ER					
ASSESSME	NT:										
		TICAL FLIGH		R	EDUN	DANCY	SCF	REENS		CII	
		DW/FU		·A		F	3	C	3	7.11	rw.
NASA IOA	[3 /3 3 /3]	[]	[[]	[]	[] *
COMPARE	[/]	[]	[]	[]	[]
RECOMMEN	DAT	ions:	(If	dif	fere	nt fr	om N	(ASA)			
	נ	/]	[3	[]	[] (2	[ADD/I] DELETE)
* CIL RE	TEN	TION 1	RATION	ALE:	(If	appl	icab	A	DEQUATE	•]
DEMADKS.								TIAN	DECONTE	L	j

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5070			ASA DATA: BASELINE NEW	=					
MDAC ID:	EPD&C 5070 DIODE, ISC	OLATION 12	2A (TO CO	NT BUS BO	C3)					
LEAD ANALYST:	K. SCHMECH	KPEPER								
ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C										
•		_								
NASA [3 /1R IOA [3 /1R] [P] [F] [F] [P]	[X] *					
COMPARE [/] [] [] []	[]					
RECOMMENDATIONS:	(If dif	ferent fro	om NASA)							
[/] [] [] [] (A	[] DD/DELETE)					
* CIL RETENTION REMARKS:			A ANI	DEQUATE DEQUATE	į j					
NASA HAS ADDED T	HE FAILURE	MODE "SHO	ORTS TO G	ROUND" TO	O THIS FMEA					

ASSESSME ASSESSME NASA FME	NT	ID:		-507				.]	NASA DA BASELI N		x]	
SUBSYSTE MDAC ID: ITEM:	м:		EPD&0 5071 DIODI	_	SOLAT	'ION	12 A (то с	ONT BUS	BC3)		
LEAD ANA	LYS	T:	K. S	CHME	CKPEP	PER						
ASSESSME	NT:											
		TICAL FLIGH		I	REDUN	DANC!	SCR	EENS		CI	L	
		DW/FU		1	A	I	3	(2			
NASA IOA	[3 /3 3 /3]	[]	[[]	[]	[]	*
COMPARE	(/	1	[]	[1	[]	[]	
RECOMMEN	DAT	ions:	(II	di	ffere	nt fi	com N	ASA)				
-	[/]	[]	[]	[]	[(ADD/	DELF	ETE)
* CIL RE	TEN'	TION :	RATIO	IALE:	: (If	app]	licab	7	ADEQUAT ADEQUAT	•]	
DEMARKS.									_	-		

ASSESSMENT I ASSESSMENT I NASA FMEA #	ID:	6/06/8 EPD&C- 05-6-2	5072		NASA DATA: BASELINE [NEW [X						
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5072 SWITCH	I, TO	OGGLE	(DC	UTIL	PWR	MN A)	7.	. 45	
LEAD ANALYS	r:	K. SCH	IMECI	KPEPEI	R						
ASSESSMENT:					ra, s	<u>.</u>			¥ . 1.5		
1	TICAL FLIGH DW/FU	r	RI A	EDUND	ANCY B	SCRE	ENS C		C	IL TEM	
NASA [:	3 /3 3 /3]]]	[]	[]]]	*
COMPARE [/]	[]	[]	[]	[]	
RECOMMENDAT	ions:	(If	dif	feren	t fr	om NAS	SA)				
[/]	[]	[]	[]] (ADD	DEI/	ETE
* CIL RETEN	TION	RATION!	ALE:	(If	appl	icable	A	DEQUATI DEQUATI]	

ASSESSME ASSESSME NASA FME	NT I	D:	6/06/ EPD&C 05-6-	-507			,		ASA DA BASELI N	NE]	
SUBSYSTEM MDAC ID: ITEM:	M:		EPD&C 5073 SWITC		OGGLE	(DC	UTIL	PWR	MN A)				
LEAD ANA	LYST	!:	K. SC	HMEC	KPEPE	R							
ASSESSME	NT:												
•		'ICAL		R	EDUND	ANCY	SCRE	ENS			CII		
		W/FU		A		В		С					
NASA IOA	[3 [3	/3]]]	[]	[]		[]	*
COMPARE	[/]	[]	[]	[1		[]	
RECOMMEN	DATI	ONS:	(If	dif	feren	t fr	AN mc	SA)					
	[/	1	[]	[]	[]	(AI	[DD/[ELE	TE)
* CIL RE	PENT	I NOI	RATION.	ALE:	(If	appl:	icable	A	DEQUAT DEQUAT		[]	
PEMARKS.								+111V	CDZONI		L	J	

ASSESSME ASSESSME NASA FME	NT ID:	EPD8	5/87 6C-5074 5-2225-]	NASA DA BASELI N	NE			
SUBSYSTE MDAC ID:	M:	EPD8 5074 SWIT	}	OGGL	E (DC	UTI	L PW	R MIN A)				
LEAD ANA	LYST:	к. s	CHMEC	KPEP	ER							
ASSESSME	NT:											
	CRITIC	ALITY GHT	R	EDUN	DANCY	SCR	EENS			CIL		
	-	FUNC	A		В		ĺ	C				
NASA IOA	[3 /	3] 3]	[]	[]	[]		[] *]	
COMPARE	[/]	[]	[]	[]		[]	
RECOMMEN	DATION	is: (f dif	fere	nt fr	om N	ASA)					
	[/	1	[]	[]	[]	(Al	[D/DC] ELETE)
* CIL RE	TENTIC	N RATIO	ONALE:	(If	appl	icab		ADEQUAT		[]	
REMARKS:								-		-	_	

ASSESSME	NT D	ATE:	6/06/8	37				N.	ASA D	ATA:	:			
ASSESSMEINASA FME	NT I	D:	EPD&C-05-6-2	-507					BASEL	INE				
SUBSYSTEM MDAC ID:	M:		EPD&C 5075 SWITCE	H, TO	OGGLE	(DC	UTIL		MN A)				
LEAD ANA	LYST	:	K. SCI	IMECI	KPEPE:	R								
ASSESSMEI	NT:													
(ICAL	ITY r	RI	EDUND	ANCY	SCREI	ens			CI	L	[
		W/FUI		A		В		С						
NASA IOA	[3 [3	/3 /3]	[]	[]	[]		[[]	*
COMPARE	[/]	[]	[]	[]		[]	
RECOMMENI	DATI	ons:	(If	difi	feren	t fro	om NAS	SA)						
<u>.</u> .	[/]	[]	[]	[]	(AI	-	DE	-	TE)
* CIL RET	PENT	ION I	RATIONA	ALE:	(If a	appl:	icable	A	DEQUA'		[]	
REMARKS:									×		L		J	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/07/87 EPD&C-5076 05-6-2263-1	NASA DA BASELI 1	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5076 CIRCUIT BREAKER, 5	A (MN C CONTR)	
LEAD ANALYST:	K. SCHMECKPEPER		
ASSESSMENT:			
CRITICAL: FLIGH	r		CIL ITEM
HDW/FU	NC A I	C	
NASA [2 /1R IOA [3 /1R] [P] [I] [P] [I	[P] P] [P]	[X] *
COMPARE [N /] [][1	[]	[N]
RECOMMENDATIONS:	(If different fr	com NASA)	
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* CIL RETENTION	RATIONALE: (If app.	licable) ADEQUA' INADEQUA'	
REMARKS: IOA CONCURS WITH CONCERNS.	NASA'S REEVALUATIO	ON DUE TO FUEL	CELL SAFING

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SUBSYSTIMDAC ID	-		EPD&C 5077 CIRCU		BREAK	ER, S	5 A (M	IN C	CONTR)		
LEAD AN	ALYST	Γ:	K. SC	CHME	CKPEP	ER					
ASSESSMI	ENT:										
		rical Fligh	ITY T]	REDUN	DANC	SCR	EENS		CII	
		W/FU		1	A	I	3	•	С		
NASA IOA	[3	3 /3]	[]	[]	[[]	[] *
COMPARE	[/	j	[]	[,]	[]	, (.]
RECOMMEN	ITAGI	ons:	(If	di	ffere	nt fi	com N	ASA)		-	
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* CIL RI	ETENT	NOI	RATION	IALE	(If	app]	licab		ADEQUATE	٢	1
REMARKS:	:								ADEQUATE		j

ASSESSME ASSESSME NASA FME	NT]	D:	6/06/ EPD&0 05-6-	:- 507				N	IASA DA BASELI N	NE	[[x]	
SUBSYSTE MDAC ID:	M:		EPD&C 5078 CIRCU		REAK	ER, 1	.OA (MN A	UTIL F	PWR	019	/ M 052	J)
LEAD ANA	LYSI	r:	K. S	CHMEC	KPEP	ER							
ASSESSME	NT:												
		rical Fligh		R	EDUN	DANCY	SCR	EENS			CIL		
		OW/FU		A		E	3	C					
NASA IOA	[:	3 /3 3 /3]	[]	[]	[[]		[] *]	
COMPARE	[/]	[]	[]	[]		[]	
RECOMMEN	DAT:	ions:	(I :	f dif	fere	nt fr	om N	ASA)			· i		
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* CIL RE	TEN		RATIO	NALE:	(If	appl	licab	7	ADEQUA'		[]	
REMARKS:											-		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:				NASA BASE	LINE]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5079 CIRCUIT	BREAKER	, 10A (N	ON A UTIL	PWR	019,	/M052J)
LEAD ANALYST:	K. SCHME	CKPEPER					
ASSESSMENT:							
CRITICAL FLIGH HDW/FU	T	REDUNDA A	NCY SCRE	EENS C		CIL	1
NASA [3 /3 IOA [3 /3] []	[]	[]		[] *
COMPARE [/] [1	[]	[]		[]
RECOMMENDATIONS:	(If di	fferent	from NA	SA)			
. [/	J []	[]	[]	(AI	[DD/DE] ELETE)
* CIL RETENTION : REMARKS:	RATIONALE	: (If a	pplicabl	e) ADEQUA INADEQUA		[]

ASSESSMENT ID:	SESSMENT DATE: 12/07/87 NASZ SESSMENT ID: EPD&C-5080 BASZ SA FMEA #: 05-6-2261-1							
	EPD&C 5080 CIRCUIT	BREAKER,	10A (CON	T BUS BC1,	BC2, BC3)			
LEAD ANALYST:	K. SCHM	ECKPEPER						
ASSESSMENT:								
CRITICAL FLIGH	ITY T	REDUNDAN	CY SCREEN	rs ·	CIL ITEM			
HDW/FU		A	В	С				
NASA [3 /1R IOA [3 /1R] [P] [P] [F] [P]	P] P]	[X] * []			
COMPARE [/] [] [[и]]	[и]			
RECOMMENDATIONS:	(If d	ifferent	from NASA	7)	e de e ce			
7 me of 1 /] [] [] [[] (A	[] ADD/DELETE)			
* CIL RETENTION	RATIONAL	E: (If ap		ADEQUATE				
REMARKS: IOA CONCURS WITH IS NOT READILY D	NASA'S ETECTABL	REEVALUAT E.	TION AS A	CIRCUIT BE	REAKER "POP			

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SUBSYSTEM MDAC ID:	M:		EPD&6 5081 CIRC		REAK	ŒR, 1	LOA	(CONT	BUS	BC1,	BC2	, BC3)
LEAD ANA	LYSI	?:	K. S	CHMEC	KPEF	PER						
ASSESSME	NT:											
•			ITY	R	EDUN	IDANCY	z sci	REENS			CIL	
		LIGH W/FU		A		F	3	(c		ITE	M
NASA IOA	[3	/3]	[]	[]	[]		[] *
COMPARE	ĺ,	/]	. []	[]	[]		Į.]
RECOMMEN	DATI	ONS:	(I:	f dif	fere	nt fr	com l	NASA)				
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REMARKS:								TIVE	1DEQU	AIL	ι	Ţ

ASSESSMENT DA ASSESSMENT II NASA FMEA #:	•	5082		NASA DATA BASELINI NEV	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5082 RESIST	OR, 1.2K	2W (TO M	PCA-1)	
LEAD ANALYST:	K. SCH	MECKPEPE	R		1.4
ASSESSMENT:					
FI	CALITY LIGHT		ANCY SCRE	ENS C	CIL ITEM
HDV	/FUNC	A	В	C	
	/1R] /1R]	[P] [P]	[P] [F]	[P] [P]	[X] * [X]
COMPARE [/ 1	[]	[N]	[]	[]
RECOMMENDATIO	ons: (If	differen	t from NA	SA)	
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* CIL RETENT	ION RATIONA	ALĒ: (If	applicabl		
				ADEQUATE INADEQUATE	•
REMARKS: THE "B" SCREI OPERATIONAL S MOTOR OPERAT	STATUS MEAS	BECAUSE T SUREMENTS	HE GROUND AND THE	CAN MONITE CREW CAN MO	R THE MCA NITER THE

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ASSESSMEN ASSESSMEN NASA FMEA	I TV	D:	12/08/ EPD&C- 05-6-3	-508			-		ASA DA BASELI N	NE			-
SUBSYSTEM MDAC ID: ITEM:	4:		EPD&C 5082 RESIS	ror,	1.2K	2W	(TO M	PCA-	1)				
LEAD ANAI	LYST	:	K. SCI	HMEC	KPEPE	R							
ASSESSMEN	T:												
C	F	ICAL LIGH W/FU	r	Ri A		ANCY B	SCRE	ENS C			CIL		
NASA		•									г] *	
IOA	[3	/3]	ĺ]	ĺ]	[]		[]	•
COMPARE	[/]	[]	[]	[]		[]	
RECOMMEND	DATI	ons:	(If	dif	feren	t fr	om NA	SA)					
-	[/	1	[]	[]	[]	(AI	[D/D	-	E)
* CIL RET	PENT:	ION 1	RATION	ALE:	(If	appl	icabl	A	DEQUAT DEQUAT		[]	
REMARKS:								TIM	DDQOAT.		L	1	

ASSESSME ASSESSME NASA FME	NT]	D:	12/07 EPD&C 05-6-	-508								DATA: LINE NEW	[x]	
SUBSYSTE MDAC ID:	M:		EPD&C 5083 SWITC	н, т	'OGGI	LE S	PSI	' (M	CA I	٥٥٠	GIC I	⁄ON A			1)	
LEAD ANA	LYS	r:	ĸ. sc	HMEC	KPEI	PER			*			•		7.54		. 11
ASSESSME	NT:															
		TICAL:		F	EDU	NDAN	CY	SCR	EENS	5			C]	IL PEM	r.	
	_	FLIGH' DW/FU		A			В			С				LL	L	
NASA TOA		3 /1R 3 /3		[E	']	[F]	[P]		[X]	*
COMPARE	[/N]	[]	1]	E	N]	[N]		[N]	
RECOMMEN	DAT:	ions:	(If	dif	fere	ent	fro	om N	(ASA)						
	[/]	[]	[]	[]	(A	DD,	/DI] ELF	ETE)
* CIL RE	TEN'	TION	RATION	ALE:	(I:	f ap	pl:	icab			DEQU.		[x]	
REMARKS: IOA CONC "PSYCHOT	URS				EEVA	LUAT	IO	N AS	IO	A T	NAS	UNAW	ARI	E ()F	THE

ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #:	E: 12/08/87 EPD&C-50 05-6-265	84 3-1		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5084			OGIC MN A	MID 1)
LEAD ANALYST:	K. SCHME	CKPEPER			
ASSESSMENT:					
FLI	ALITY :				CIL ITEM
HDW/	FUNC	A :	В		
NASA [2 / IOA [2 /	1R] []	P] []	P] [P] P]	[X] * [X]
COMPARE [/] [] []	N] []	[]
RECOMMENDATION	S: (If di	fferent f	rom NASA)		
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* CIL RETENTIO	N RATIONALE	: (If app		ADEQUATE ADEQUATE	•
REMARKS: THE "B" SCREEN OPERATIONAL ST MOTOR OPERATIO	ATUS MEASURI		ROUND CA	N MONITER	THE MCA

ASSESSMENT ASSESSMENT NASA FMEA #	ID:	EPD&	/04/87 NASA DAT PD&C-5085 BASELII 5-6-2006-1 NI							[x]	
SUBSYSTEM: MDAC ID: ITEM:		EPD& 5085 FUSE		A TO	FPCA-	-1							
LEAD ANALYS	T:	K. S	CHMEC	KPEF	PER	= -			* •			-	
ASSESSMENT:													
	TICAL FLIGH		R	EDUN	IDANCY	SCRE				CI I'I	L EM	1	
H	DW/FU	NC	A		В		C						
	3 /1R 3 /1R		[F]	[F [F]	[F)]]	X]	*
COMPARE [/]	[]	[]	[]		[]	
RECOMMENDAT	'IONS:	(I	f dif	fere	ent fro	om NA	SA)						
	/]	[1	[]	[j	(AI	[D/	/DF	ELI]	ETE
* CIL RETEN	TION	RATIO	NALE:	(Î)	f appl	icabl	P	DEQUA DEQUA		[x]	
REPLANTA													

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ASSESSME	ASSESSMENT DATE: 6/04/87 ASSESSMENT ID: EPD&C-5086 WASA FMEA #: 05-6-2006-1							Ņ	ASA DAT BASELIN NE	E []
SUBSYSTEM MDAC ID:	M:		EPD&C 5086 FUSE,	15	оа то	FPCA	·-1				
LEAD ANA	LYSI	? :	K. SCI	IME	CKPEP	ER					
ASSESSME	NT:										
•		'ICALI 'LIGH'I		:	REDUN	DANCY	SCR	EENS		CIL	
		W/FUN			A .	B		C		. I.E.	М
NASA IOA		/1R /1R]	[P]] 7]	[P		x]] *
COMPARE	Ĺ	/]	[,]	Į.	,]	[]	[],,,,
RECOMMEN	DATI	ONS:	(If	di	ffere	nt fr	om N	ASA)			
	[<i>/</i>]	[]	[]	[[ADD/D] ELETE)
* CIL RE	PENT	ION R	RATIONA	\LE	: (If	appl	icab	A	DEQUATE DEQUATE]
REMARKS:										-	-

ASSESS	MENT	II :):	6/04/8 EPD&C- 05-6-2	87 R-5087 BASELINE [] 2006-1 NEW [X]												
SUBSYS MDAC I ITEM:		;		EPD&C 5087 FUSE,	15	50A	OT .	FP	CA-	-1							
LEAD A	NAL	ST	:	K. SCH	IME	CK	PEPE	ER									
ASSESS	MENT	r:															
	CI					RE	DUNE	AN	CY	SCREI	ENS	3			[L [E]	T.	
			LIGH' N/FU	NC		A			В			С				•	
NAS IC	SA SA	[3 [3	/1R /1R]	[P P]	(F]	[P P]	[X X]	*
COMPAR	RE	[/]	[]	(]	[]	[]	
RECOM	ŒND	ATI	ons:	(If	d:	Lf1	fere	nt	fr	om NA	SA)	-				
-		[/]	[]	(•	3	[]		/D		ETE
		ENT	ION	RATION	ALI	Ε:	(If	aŗ	pl	icabl		Al	DEQUATI		X]	
REMARI	KS:																

ASSESSME ASSESSME NASA FME	NT I	D:	6/06/3 EPD&C 05-6-3	-508				N	IASA DA' BASELII NI			
SUBSYSTE MDAC ID: ITEM:	M:		EPD&C 5088 RESIS	ror,	5.11	C 1/4	W (TO	GSE	MONIT	OR)		
LEAD ANA	LYSI	?:	K. SC	HMEC	KPEPI	ER						
ASSESSME	NT:											1.1.12
,	F	LIGH					SCRE				CIL	
	HL	W/FU	NC	A		В	,	C				
NASA IOA	[3	/3]	[]	[]	[]		[] *
COMPARE	[/]	[]	[J	[]		[J
RECOMMEN	DATI	ons:	(If	dif	ferer	t fr	om NA	SA)				
-	[/]	[]	[]	[]		[D/D]] ELETE)
* CIL RE	TENT	'ION	RATION	ALE:	(If	appl	icabl	A	DEQUATI		- :]
REMARKS:								****	PPACUIT	- (•	J

ASSESSME ASSESSME NASA FME	NT]	D:	EPD	5/87 kC-5089 5-2807-		NASA DATA: BASELINE [] NEW [X]							
SUBSYSTE MDAC ID:			EPD 5089 RPC		FMCA-	-1 PW	TR CO	NT)					
LEAD ANA	LYST	r:	K. :	SCHMEC	KPEPI	ER							
ASSESSME	NT:			energy e	: 1	e gergeş							
		rical Fligh		RI	EDUNI	DANCY	SCR	EENS		CIL			
		DW/FU		A		F	3	(3		18.314		
NASA IOA	[:	3 /3 3 /3]	[]	[[]	[]	[] *		
COMPARE	[/]	[]	[]	[1	[]		
RECOMMEN	IDAT:	ions:	(If dif	fere	nt fi	com N	ASA)					
.:	[/]	[]	[]	[]	[(ADD/D] ELETE		
* CIL RE	TEN'	TION	RATI	ONALE:	(If	app:	licab		ADEQUATI ADEQUATI]		
REMARKS:	:					J.134 . A					1		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5		NASA DATA BASELINE NEW						
SUBSYSTEM: MDAC ID: ITEM:	5090	(FMCA-1	PWR CONT)						
LEAD ANALYST:	K. SCHM	ECKPEPER							
ASSESSMENT:									
CRITICAL FLIGH		REDUNDAN	CY SCREEN	/S	CIL ITEM				
HDW/FU	NC	A	В	С					
NASA [2 /1R IOA [2 /1R] [P] [P] [P] [F] [P] P]	[X] *				
COMPARE [/] [] [и] []	[]				
RECOMMENDATIONS:	(If d	ifferent	from NASA	.)					
[/] [] [] [[] DD/DELETE)				
* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE []									
REMARKS: IOA CONCURS WITH NASA'S SCREEN "B". GROUND CAN DETERMINE STATE OF RPC VIA OPERATIONAL STATUS MEASUREMENTS.									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/04/87 EPD&C-5091 05-6-2006-		NASA DAT BASELIN NE	E []
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5091 FUSE, 150	A TO MAIN	DC DIST ASSY 1	
LEAD ANALYST:	K. SCHMECI	KPEPER		
ASSESSMENT:				
CRITICAL: FLIGHT		EDUNDANCY	SCREENS	CIL ITEM
HDW/FUI		В	C	
NASA [3 /1R IOA [3 /1R] [F] [F] [P]] [P]	[X] * [X]
COMPARE [/] [] [1 [1	
RECOMMENDATIONS:	(If dif	ferent fr	om NASA)	
] [] [] []	[] ADD/DELETE)
* CIL RETENTION :	RATIONALE:	(If appl	icable) ADEQUATE INADEQUATE	

ASSESSMENT DATE: 6/04/87 ASSESSMENT ID: EPD&C-5092 NASA FMEA #: 05-6-2006-1 SUBSYSTEM: EPD&C MDAC ID: 5092															DATA ELINE NEW	Ţ	x] -	. 11
SUBSYSTIMDAC ID:				50	92	1	502	A TO	MA:	IN	DC	DIS	T.	ASS	Y 1				
LEAD AN	ALY:	ST	:	ĸ.	sc	HMI	EC	KPEP	ER										
ASSESSMI	ENT	:																	
	CRITICALITY FLIGHT HDW/FUNC NASA [3 /1R] IOA [3 /1R]						RI A	EDUN	DAN	CY B	SCI	REEN	s c			C]	[L [EN	1	
NASA						[P]	[F]	[P]	থা রাভ্যা জয়া	[x] *	
IOA	[3	/1R]		[P]	. [F	-		P]		. [X] - ,	
COMPARE	[į.	/]		[j	, [ļ	[]	· .	[]	
RECOMMEN	IDAT	ric	ons:		(If	di	Ĺfí	fere	nt :	fro	a mc	VASA) .						
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* CIL RE		NT]	ON 1	RAT	'ION?	\LE	E:	(If	apı	01:	icak				UATE UATE	[x]	
REMARKS:	;																		

ASSESSME ASSESSME NASA FME	NT I		6/04/ EPD&C 05-6-	-509				_	ASA DA BASEL: 1	INE]
SUBSYSTEMDAC ID:	M:		EPD&C 5093 FUSE,		A TO	MAIN	DC DI	[ST	ASSY :	ı		
LEAD ANA	LYST	:	K. SC	HME	KPE	PER						
ASSESSME	NT:											
ı		ICAL	ITY T	F	REDUN	IDANCY	SCREI				CIL	
	HD	W/FU	NC	7	\	В		С				
NASA IOA	[3 [3	/1R /1R]	[]	?]	[F [F]	[P]		[X] *]
COMPARE	[/]	[]	[]	[]		[]
RECOMMEN	DATI	ons:	(If	di	fere	ent fr	om NAS	SA)		. •		÷ .
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* CIL RE	TENT	'ION	RATION	ALE	(11	f appl	icable	A	DEQUA'		[X]
REMARKS:				: 23					ti tal			.2 s .

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	EPD&C-509					ASA DATA BASELINI NEV]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5094 RESISTOR	, 5.1K	TO '	TEST	POIN'	TS		
LEAD ANALYST:	K. SCHME	CKPEPE	R					
ASSESSMENT:								
CRITICA	CIL							
FLIG HDW/F	UNC A	4	В		С		ITE	M
NASA [/ IOA [3 /3] []	[]	[]	[] *
COMPARE [N /N) []	[]	[]	[]
RECOMMENDATIONS	: (If di	feren	t fr	om NA	SA)			
(/] []	[]	[] (2	[ADD/D] ELETE)
* CIL RETENTION	RATIONALE:	(If	appl	icable	A.	DEQUATE DEQUATE]
REMARKS: THIS COMPONENT POINT. THEREFO CONCURS.	HAS NO CONN RE NASA DII				нт на	ARDWARE	OR Ï	

ASSESSMEN ASSESSMEN NASA FME	NT II		EPD8	/87 C-509 -2351			1	IASA DAT BASELIN NI	1E [x]	
SUBSYSTEMDAC ID:	M:		EPD& 5095 RESI		1.8	K 1/4	W (T	o sid	G COND (OF1)	
LEAD ANA	LYST	:	K. S	CHMEC	KPEP	PER					
ASSESSME	NT:										
	CRIT	ICAL LIGH		·	REDUN	IDANCY	SCR	EENS		CI IT	
		W/FU	_	P	4	E	3	(
NASA IOA	[3 [3	/3 /3]]]	[]	[]	[] *]
COMPARE	[/	1	[]	[]	[]	[]
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* CIL RE	TENT	ION	RATIO	NALE:	: (If	appl	licab		ADEQUAT:	E []
REMARKS:									ADEQUAT		Ĵ

ASSESSMENT DATASSESSMENT ID:	EPD&C-	5096		NASA DATA BASELINE	[]
NASA FMEA #:	05-6-2	294-1		NEW	[X]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5096 FUSE,	35A TO F	LCA-1		
LEAD ANALYST:	K. SCH	MECKPEPE	Ř		, e ==
ASSESSMENT:					•
	ALITY GHT	REDUNDA	ANCY SCRE	EENS	CIL ITEM
	FUNC	A	B .	C	LIEM
NASA [1 / IOA [3 /	[1] [1R]	[p]	[F.]	. [, , , , , , , , , , , , , , , , , , ,	[X] *
COMPARE [N /	n]	[N]	[N]	[N]	[]
RECOMMENDATION	s: (If	differen	t from NA	SA)	
	1	[]	[]	[·]	[] DD/DELETE;
* CIL RETENTIO	N RATIONA	LE: (If a	applicabl		
				ADEQUATE INADEQUATE	[X] []
REMARKS: IOA AGREES WIT					ALYST WAS

ASSESSMEN	ASSESSMENT DATE: 12/08/87 ASSESSMENT ID: EPD&C-5097 NASA FMEA #: 05-6-2707-1 SUBSYSTEM: EPD&C MDAC ID: 5097														ASA D BASEI		[x]	
SUBSYSTEM MDAC ID: ITEM:				50	97	OF	٦,	1.2	к 2	2W	(TO F	PCZ	4 -1	L)					
LEAD ANAI	LYS	T:		ĸ.	SCF	IMI	ECI	(PEPI	ER											
ASSESSMEN	T:	;																		
C	CAL LIGHT	ľ			RI A	EDUNI	DAI		Y B	SCRE	EN:	s C			CI	L	1			
NASA IOA			/1R /1R]]	P P]		[]	P F]	[P P]		[X X]	*
COMPARE	[/]		[]		[]	N]	[]		[]	
RECOMMENI	CAC	ric	ons:		(If	d:	if	fere	nt	f	r	om NA	SA)						
_	[/]		[]		[]	[]		. [DD/		-	ETE)
* CIL RET	rei	T]	ON I	RAT	IONZ	ΑLJ	Ξ:	(If	a _]	gp.	1 i	icabl			DEQU <i>I</i>		•	x]	
THE "B" S										E (GI	ROUND	C	AN	MON	TER	TI	ΙE	MO	CA

ASSESSME	NT	DATE:	12/08/				N	ASA DA	TA:	<u> </u>			
ASSESSME NASA FME			EPD&C-05-6-2					٠	BASELI N	NE IEW	[x]	. 21/5
SUBSYSTE MDAC ID: ITEM:	M:		EPD&C 5097 RESIST	ror,	1.2K	2W	(TO F	PCA-	1)				
LEAD ANA	LYS	T:	K. SCI	HMECI	KPEPE	R ·							
ASSESSME	NT:												
		TICAL	ITY	RI	EDUND	ANCY	SCRE	ENS			CIL	vr	
		DW/FU		A		В		С			1111	*	
NASA IOA	[3 /3 3 /3]	[]	[]	[]		[]	*
COMPARE	C	/]	[]	[]	[1		[]	
RECOMMEN	DAT	ions:	(If	dif	feren	t fr	om NAS	SA)					
-	[/]	C]	[]	[.]	(AI	[DD/DI		ETE)
* CIL RE	TEN	TION 1	RATION	ALE:	(If	appl:	icable	A	DEQUAT DEQUAT		[]	
REMARKS:								TWU	PHQUAI		L	J	

ASSESSME ASSESSME NASA FME	NT	II):	12/07 EPD&C 05-6-	-50	98								DATA LINI NEV	3]	
SUBSYSTE MDAC ID:				EPD&C 5098 SWITC		TC	OGGLE	SP	SI	' (MCA	. 1	٥٥٠	SIC	MN A	A F	WD	1))
LEAD ANA	LYS	ST:	:	K. SC	HMI	ECI	KPEPE	R	ers F	=: - <u>(₹</u> 8,7115	112				+ + % ,0	7 Z 7	# F	
ASSESSME	NT:	:																
	CRI		[CAL] LIGH!	ITY		ŔĬ	EDUND	ANC	Ÿ	SCREE	ENS	3			C	IL TE		
	F		v/FUI			A			В			С			_		•	
NASA IOA			/1R /1R]	[[P P]	[P F]]	P P]		[X X]	*
COMPARE	[/]	(]	Ţ	N]	[3		[]	•
RECOMMEN	IDA'I	rI(ons:	(If	đ:	if	feren	t f	ro	om NAS	SĀζ)						
	ָ [/	1.	[]	[]	[]	(2			ELI	ETE)
* CIL RE	ETEI	NT:	ION 1	RATION	[AL]	Ε:	(If	app	l i	cable			-	ATE	(х]	
REMARKS: THE "B" OPERATION	SCI								GI	ROUND	C	AN	MON	ITE	RI	HE	Mo	CA

ASSESSME ASSESSME NASA FME	NT I	D:	12/08, EPD&C- 05-6-2	-509				Ì		DATA ELINE NEW]
SUBSYSTE MDAC ID: ITEM:	M:		EPD&C 5099 SWITC	H, T	OGGLE	SPS!	r (MC	A LO	GIC	mn a	FWD	1)
LEAD ANA	LYSI	?:	K. SCI	HMEC	KPEPEI	R						
ASSESSME	NT:											
		ICAL		RI	EDUNDA	ANCY	SCRE	ENS			CIL	М
	HD	W/FUI	NC.	A		В		(2		•	-
NASA IOA	[3	/3]	[]	[]]]		[] *]
COMPARE	[/]	[]	[]	[]		[]
RECOMMEN	DATI	ONS:	(If	dif	ferent	t fro	om NA	SA)				
	Ţ	/]	[]	[]	[3	(A	[DD/D1] ELETE)
* CIL RE	TENT	I NOI!	RATION	ALE:	(If a	appl	icabl	P	ADEQU ADEQU	ATE JATE	[]
REMARKS:											•	•

ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #:		100 95-1		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5100 FUSE, 1	.50A TO MPC	CA-1		
LEAD ANALYST:	K. SCHM	ECKPEPER			
ASSESSMENT:					
CRITIC FLI		REDUNDANO	CY SCREEN	S	CIL ITEM
	TUNC	A	В	. C	
NASA [2 / IOA [3 /	.R] [P] [P] [P] [P] [P] P]	[X] *
COMPARE [N /] [] [] [1	[N]
RECOMMENDATION	S: (If d	lifferent i	from NASA	.)	
) [] [] [] (AI	[] DD/DELETE)
* CIL RETENTIO	N RATIONAL	Œ: (If app		ADEQUATE	
REMARKS: IOA CONCURS WITHE CIRCUIT. CORRESPONDING SCHEMATICS.	THIS FUSE	IS ACTUAL	LY 100 AM	IPS WITH TH	E

ASSESSME NASA FME	ENT	I) :	EPD	&C-510 6-2354			Į	BASELI N		x]	1	
SUBSYSTE MDAC ID:				EPD 510 RES	1	5.1	LK 1/4	W (T	o GSI	E MONIT	OR)		
LEAD ANA	LYS	ST:	:	ĸ.	SCHMEC	KPEI	PER						
ASSESSME	NT	:											
	CR]		CAI LIGH	LITY	R	EDÜN	IDANCY	SCR	EENS		CI	L	
	I		/FT		A		B		C	2			
NASA IOA	[3 3	/3 /3]	[]	[]]]]]	*
COMPARE	[/]	[J	[]	[]	ι]	
RECOMMEN	DAI	ric	NS:	(If dif	fere	ent fr	om N	ASA)				
	1		/]	[]	(]	[[(ADD/	DELE	TE)
* CIL RE	TEN	TI.	ON	RATI	ONALE:	(If	appl	icab	A	DEQUATI	-	ļ	
REMARKS:									THE	PPGOVII	<u>-</u> [J	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/17/87 EPD&C-5102 05-6-2803		NASA DATA: BASELINE [] NEW [X]							
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5102 RPC, 5A (ro MMCA-1)								
LEAD ANALYST:	K. SCHMEC	KPEPER								
ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM										
HDW/FU		B -	C							
NASA [3 /1R IOA [3 /3] [P] [F]	[P] []	[X] * []						
COMPARE [/N] [N] [N]	[N]	[и]						
RECOMMENDATIONS:	(If dif	ferent from	n NASA)							
] [] [:	[] [A	[] DD/DELETE)						
* CIL RETENTION	RATIONALE:	(If applio	cable) ADEQUATE INADEQUATE	[X]						
REMARKS: IOA CONCURS WITH	NASA - IO	A UNAWARE (OF "PSYCHOTIC GE	PC" PROBLEM.						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/17/87 EPD&C-5103 05-6-2803-1		NASA DATA BASELINE NEW	
	EPD&C 5103 RPC, 5A (TO) MMCA-1)		
LEAD ANALYST:	K. SCHMECKE	PEPER		
ASSESSMENT:				
CRITICALI FLIGHT HDW/FUN	ŗ	DUNDANCY SCREE B	ens C	CIL ITEM
NASA [2 /1R IOA [2 /1R] [P]	[P] [P]	[P] [P]	[X] *
COMPARE [/] []	[]	[]	[]
RECOMMENDATIONS:	(If diffe	erent from NAS	SA)	
] []	[]	[] (AI	[] DD/DELETE)
* CIL RETENTION F	RATIONALE: (If applicable	ADEQUATE INADEQUATE	[X]

ASSESSME ASSESSME NASA FME	NT I	D:	6/06/8 EPD&C- 05-6-2	-5104			BASELINE [] NEW [X]						
SUBSYSTE MDAC ID: ITEM:			EPD&C 5104 FUSE,	35A	то	H2/O2	HTR	CONT	ASSY ‡	1			
LEAD ANA	LYST	C:	K. SC	HMEC	KPE	PER				-			
ASSESSME	NT:												
		CICAL		R	EDUI	NDANCY	SCRI	EENS			CIL (TE)	۷ī	
	_	W/FUI		A		В		С		. t.		•	
NASA IOA		3 /1R 3 /1R		[P]	[P [F]	[P]	[[[x] *	t
COMPARE	[/]	[]	[11]	[]	١	N]	
RECOMMEN	DAT]	cons:	(If	dif	fer	ent fr	om NA	ASA)				- 7	r. · · · ·
	[/]	[]	1	3	1	1	 ADI	[D/D:] ELEI	ΓE)
* CIL RE	TENT	rion 1	RATION	ALE:	(I	f appl.	icab]	Α	DEQUATI DEQUATI		[]	
REMARKS:		WITH	NASA'	s sc	REE	N "B".	_		ho F.		سدار .	ian in	

ASSESSME ASSESSME NASA FME	NT I	D:	6/06/6 EPD&C 05-6-	-510		NASA DATA: BASELINE [] NEW [X]								
SUBSYSTE MDAC ID: ITEM:			EPD&C 5105 FUSE,											
LEAD ANA	LYST	!:	K. SC	HMEC	KPE	PER								
ASSESSME	NT:													
		ICAL	ITY F	R	EDU	NDANC	Y	SCR	EENS	5		CI	L EM	
	HD	W/FUI	NC	A			В			C				
NASA IOA	[3 [3	/1R /1R]	[F]	[P F]	[P] P]] [x]	*
COMPARE	[/	1	[]	[N]	[]		[n]	
RECOMMEN	DATI	ONS:	(If	dif	fer	ent f	ro	om N.	ASA)					
-	ſ	/]_	[]	[]	[]	(A	[DD/	DEL	ETE)
* CIL RE	TENT	I NOI	RATION	ALE:	(I:	f app	1 i	icab	·	ADEQU.	ATE	[[]	
REMARKS:	URS	WITH	NASA'S	s sc	REE	N "B"	١ _							

ASSESSMENT DATE: 12/15/87 ASSESSMENT ID: EPD&C-5106 NASA FMEA #: 05-6-2010-1										DATA: ELINE [NEW [x]
SUBSYSTE MDAC ID:			EPD8 510 FUSI		OA TO) APC	:A-1					
LEAD ANA	LYSI	!:	к. 8	SCHME	CKPEF	PER						
ASSESSME	NT:			-								
	F	'ICAL 'LIGH	T			IDANC		CREEN			IL TEM	I
•	HE	W/FU	NC	2	A		В		С			
NASA IOA	[3	/1R]	[]	P]]	P] F]]	P] P]] [x] *]
COMPARE	[/]	C]	[N]	[]	[N]
RECOMMEN	DATI	ons:	(:	If di	ffere	ent f	rom	NASA)			
-	Į,	/]	ĺ]	[.]	Ţ	1] (ADD	/DE] ELETE
* CIL RE					·			I	ADEQU NADEQU	-]
IOA CONC	URS	WITH	NASA	A THAT	r scr	REEN	"B"	IS P	ASS.			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5107	B2	ASELINE [] NEW [X]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5107 FUSE, 100A TO	.a.petra ALCA-1	
LEAD ANALYST:	K. SCHMECKPEPE	R	
ASSESSMENT:			di e e e e e e e e e e e e e e e e e e e
CRITICAL: FLIGHT	TY REDUND	ANCY SCREENS	CIL ITEM
	NC A	В С	:
NASA [3 /1R IOA [1 /1] [P]] [P]	[P] [P] [F] [F]	[X] *
COMPARE [N /N] []	[N] [N]	[]
RECOMMENDATIONS:	(If differen	t from NASA)	
] []		[] (ADD/DELETE)
* CIL RETENTION 1	RATIONALE: (If	ADI	EQUATE [X] EQUATE []
REMARKS: IOA CONCURS WITH AGREE ON CRITICAL	NASA REEVALUAT LITY 1/1 FOR RT	ION FOR NOMINAL	L FLIGHT AND WE BOTH

ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5108 NASA FMEA #: 05-6-2351-1								N	IASA I BASEI		[
SUBSYSTE MDAC ID:		K 1/4	T) W	o sid	CONI	O OA	1)						
LEAD ANA	LYSI	r:	K. S	CHMEC	KPEP	ER							
ASSESSME	NT:												
		TICAL		R	EDUN	DANCY	SCR	EENS			CIL		
	_	W/FU		A		F	3						
NASA IOA	[3	3 /3]	[]	[]	[]		[]	*
COMPARE	[/]	[]	, []	[]		[]	
RECOMMEN	DAT	cons:	(I	f dif	fere	nt fi	com N	ASA)					
<u>.</u>	Ĺ	/]	ſ]	. [1	[]	(A	[DD/[] ELE	TE)
* CIL RE	TENT	rion	RATIO	NALE:	: (If	app	licab	7	ADEQUA ADEQUA		[]	
DEMADEC													

ASSESSMENT DATE: 12/08/87 ASSESSMENT ID: EPD&C-5109 NASA FMEA #: 05-6-2701-1											NASA I BASEI		[
SUBSYSTEMDAC ID:			EPD&C 5109 RESIST	TOF	٤,	1.2K	2W	, ((TO A		-4)					-, - , - -
LEAD ANA	LYST	:	K. SCI	IME	CF	PEPEI	3									
ASSESSME	ENT:												a c gra			→ ·
			ITY		RE	DUND	ANC	Y	SCRE	ENS			CI			
		LIGHT W/FUI			A			В			c		IT	E.M	1	
NASA IOA		/1R /1R]	[P P]	[P F]	[P] P]		[X X]	*
COMPARE	[/]	[]	[N]	E]		[]	
RECOMMEN	IDATIO	ONS:	(If	di	ff	erent	: f	rc	m NA	SA)						
	[/]	[]	[]	[]	(AI	[DD/:	DE] ELF	ETE)
* CIL RE	ETENT:	ION I	RATIONA	LE	:	(If a	app	13	cabl							. 1
<u>.</u>		n selantiti									ADEQU <i>I</i> ADEQU <i>I</i>					
REMARKS: THE "B" OPERATION	SCREI	TAT	JS MEAS													

ASSESSME ASSESSME NASA FME	NT I		12/08 EPD&0 05-6-	-510			1	NASA DATA BASELIN NEV	E [x]	
SUBSYSTE MDAC ID:	M:		EPD&0 5109 RESIS		1.2	K 2W	(TO .	APCA·	-4)		
LEAD ANA	LYST	:	K. S	CHMEC	KPEP	ER					
ASSESSME	NT:										
			YTI	R	EDUN	DANCY	SCR	EENS		CI	
		LIGH W/FU		A		F	3	(C	IT	c.M
NASA IOA	[3 [3	/3 /3]	[]]]	[]	[] *
COMPARE	[/]	[]	[]	[]	[]
RECOMMEN	DATI	ons:	(I	f dif	fere	nt fr	om N	ASA)			
	[/]	[]	C]	[] ([ADD/] DELETE)
* CIL RE	TENT	ION	RATIO	NALE:	(If	appl	licab		ADEQUATE ADEQUATE	-]
REMARKS:		-								•	•

	: 12/08/87 EPD&C-51: 05-6-265:	10		NASA DATA BASELINE NEW						
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5110 SWITCH,	roggle s	SPST (MC)	A LOGIC MN A	AFT 1)					
LEAD ANALYST:	K. SCHME	CKPEPER								
ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C										
nuw/r	UNC A	н.	ь							
NASA [2 /1 IOA [2 /1	R] []	P] P]	[P] [F]	[P] [P]	[X] *					
COMPARE [/) [1	[и]	[]	[]					
RECOMMENDATIONS	: (If di	fferent	from NAS	SA)						
[/) []	[]	[]	[] DD/DELETE)					
* CIL RETENTION	RATIONALE	: (If a	pplicable	≥) ADEQUATE INADEQUATE	[X]					
REMARKS: THE "B" SCREEN OPERATION TIME.	PASSES BEC	AUSE THI	E CREW C	AN MONITER T	HE MOTOR					

ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5111 NASA FMEA #: 05-6-2651-2								N	IASA D BASEI	INE	[]
SUBSYSTE MDAC ID:	M:		EPD&6 5111 SWIT	С Сн, т	OGGL	E SPS	T (M	CA L	OGIC M	IN A	AFT	1)
LEAD ANA	LYS	T:	K. S	CHMECI	KPEP	ER	:				-	t = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ASSESSME	NT:											
	CRI	TICAL		R	EDUN	DANCY	SCR	EENS	•	•	CIL	
	H	FLIGH DW/FU		A		E	3	(2			••
NASA IOA	[3 /3 3 /3]] []	[]	[]		[] *]
COMPARE	[/]	[]	[]	[]		[]
RECOMMEN	DAT	cions:	(I	f dif	fere	ent fr	om N	ASA)				
	[/]	[]	[]	[]	(A	[DD/D] ELETE)
* CIL RE	TEN	TION	RATIO	NALE:	(If	appl	icab	7	ADEQUA ADEQUA		[]
REMARKS:												

ASSESSMENT DATE: 6/13/87 ASSESSMENT ID: EPD&C-5112 NASA FMEA #: 05-6-2801-1									ASA DATA BASELINE NEW]
SUBSYSTI MDAC ID: ITEM:			EPD&C 5112 RPC,	5A ('	TO A	MCA-1)		-			
LEAD ANA	ALYST	:	K. SCI	IMECI	KPEP	ER					
ASSESSMI	ENT:										
	F	LIGHT	ITY I 1C	RI A		DANCY B	SCREE	ns C		CIL ITEN	1
NASA IOA	[2	/1R /1R]	[P]	[P [F]	[P]	[X]] *
COMPARE	ι	/]	C]	[N]	[1	[]
RECOMMEN	ITADI	ons:	(If	dif	fere	nt fro	m NAS	A)			-
	[/]	[]	[]	[] (A	[.DD/DE] CLETE)
* CIL RI		ION I	RATION	ALE:	(If	appli	.cable	A	DEQUATE DEQUATE	-]
REMARKS: THE "B" STATE WI	SCRE								MONITER	THE	RPC

ASSESSME ASSESSME NASA FME		EP	06/87 D&C-5: -6-286					N	IASA DI BASEL	INE	[x]			
SUBSYSTE MDAC ID:	M:			51	D&C 13 C, 5A	(TO	AMC	4-1))						
LEAD ANA	LYS	ST	:	ĸ.	SCHM	ECKP	EPER								
ASSESSME	NT:	:													
CRITICA FLIG						RED	UNDAI	4CY	SCR	EENS			CIL		
						A		В		(2			••	
NASA IOA	[3	/3 /3]	[[]		[]	[[]		[]	*
COMPARE	[/]	[]		[]	[3		[]	
RECOMMEN	DA'	ri:	ons:		(If d	iffe	rent	fr	om N	ASA)					
	[,]	(]		[]	[]	(A	[DD/D	ELE	ETE)
* CIL RE	TE:	NT	ION	RAT	IONAL	E: (If a	ppl	icab	7	ADEQUA ADEQUA		[]	

REMARKS:

ASSESSMENT ASSESSMENT NASA FMEA							:: .		ASA DATA BASELINE NEW	[
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5114 RESISTO	R,	1.2K	2W	(TO			1			÷	
LEAD ANALYS	T:	K. SCHN	ŒCI	KPEPER	t								
ASSESSMENT:													
CRI	TICAL	TTY	RI	EDUNDA	NC	SCF	REENS	3		C	IL PEN	a.	
H	IDW/FUI		A		1	3		С		Δ.	LEP	•	
NASA [IOA [2 /1R 2 /1R] [P].	[]	?] ?]	[[P P]]	X X]	*
COMPARE [/] []	[]	1]	[]	[]	
RECOMMENDAT	cions:	(If d	lif	ferent	fı	com N	IASA))					
	/] []	[]	[] (AI		/DE		ETE
* CIL RETEN	TION F	RATIONAI	E:	(If a	.pp	licab		ΑI	DEQUATE DEQUATE	[X		
REMARKS: THE "B" SCR OPERATIONAL MOTOR OPERA	STATE	JS MEASU											

ASSESSME ASSESSME NASA FME	NT I		EPD&	8/87 C-511 5-2704				N	IASA BASE	LINE]	
SUBSYSTE MDAC ID:	M:		EPDS 5114 RESI		1.2	2K 2W	(TO	MPCA-	-1)				
LEAD ANA	LYST	:	K. S	CHMEC	KPEI	PER							
ASSESSMENT:													
		ICAI LIGH	ITY	R	EDUN	IDANCY	SCR	EENS			CII	_	
		W/FU		A		В	3	C	2		4.11	.1.1	
NASA IOA	[3 [3	/3 /3]	A []]	[]		[]	*
COMPARE	[/]	[]	[]	[]		[]	
RECOMMEN	DATI	ONS:	()	f dif	fere	ent fr	om N	ASA)					
-]	[]	[]	(A	[DD/[] ELE	TE)				
* CIL RE	ONALE:	(I:	f appl	.icab	1	ADEQU ADEQU]				
REMARKS:													

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:			NASA DATA BASELINE NEW	
	EPD&C 5115 SWITCH, TOGGL	E SPST (MC	CA LOGIC MN A	MID 3)
LEAD ANALYST:	K. SCHMECKPEP	ER		
ASSESSMENT:				
CRITICAL: FLIGHT HDW/FUR	P	DANCY SCRE B	C	CIL ITEM
NASA [2 /1R IOA [2 /1R] [P]] [P]	[P] [F]	[P] [P]	[X] * [X]
COMPARE [/] []	[N]	[]	[]
RECOMMENDATIONS:	(If differe	nt from NA	ASA)	
[/] []	[]	[] (A	[] DD/DELETE)
* CIL RETENTION I	RATIONALE: (If	applicabl	le) ADEQUATE INADEQUATE	
REMARKS: THE "B" SCREEN PA OPERATIONAL STATE MOTOR OPERATION STATE	JS MEASUREMENT			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/07/87 EPD&C-5116 05-6-2654-2		NASA DATA: BASELINE NEW								
	EPD&C 5116 SWITCH, TOGG	LE SPST (MCA	LOGIC MN A	MID 3)							
LEAD ANALYST:	K. SCHMECKPE	PER									
ASSESSMENT:											
CRITICAL: FLIGH		INDANCY SCREEN	NS	CIL ITEM							
HDW/FUI		В	C								
NASA [3 /1R IOA [3 /3] [P]] []	[F] []	[P] []	* [X]							
COMPARE [/N] [N]	[N]	[и]	[N]							
RECOMMENDATIONS:	(If differ	ent from NAS	A)	radioacamenta es							
[/] []	[]	[] (AI	[] OD/DELETE)							
* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [INADEQUATE [
REMARKS: IOA CONCURS WITH NASA'S REEVALUATION AS IOA WAS UNAWARE OF "PSYCHOTIC GPC" CONCERN.											

ASSESSME ASSESSME NASA FME	ENT II EA #:	D:	EPD&C 05-6-	-511 2804	7 -2				NASA D BASEI		[
SUBSYSTE MDAC ID: ITEM:			EPD&C 5117 RPC,		TO M	MCA-3)					. = .	
LEAD ANA	LYST	:	K. SC	HMEC	KPEP:	ER							
ASSESSME	ENT:										- <u>-</u> 4	=: 5 *** .	1
		ICAL:	ITY F	R	EDUN	DANCY	SCI	REENS			CIL		
	HD	W/FUI	NC.	A		В		•	c				
NASA IOA	[3	/1R /3]	[P]	[F]	[]	P]		[X [*	
COMPARE	[/N]	[N]	[11]	[]	N]		[N]	
RECOMMEN	IDATI(ons:	(If	dif	fere	nt fr	om 1	NASA)					
-		/	1	[]	[]	[]	(AD	[D/D] ELETI	Ξ)
* CIL RE		ION 1	RATION	ALE:	(If	appl:	ical		ADEQUA ADEQUA	TE]	
REMARKS:		WITH	NASA	- IO	A UN	AWARE	OF	"PSY	CHOTIC	GPC	" P	ROBLE	EM.

SUBSYSTEM: EPD&C MDAC ID: 5118 ITEM: RPC, 5A (TO MMCA-3) LEAD ANALYST: K. SCHMECKPEPER ASSESSMENT: CRITICALITY REDUNDANCY SCREENS CIL FLIGHT HDW/FUNC A B C NASA [2 /1R] [P] [P] [P] [X] * IOA [2 /1R] [P] [P] [P] [X] COMPARE [/] [] [] [] [] RECOMMENDATIONS: (If different from NASA) [/] [] [] [] [] * CIL RETENTION RATIONALE: (If applicable) REMARKS:	ASSESSMENT DATE: 12/17/87 ASSESSMENT ID: EPD&C-5118 NASA FMEA #: 05-6-2804-1												ELINE NEW	[X]		
ASSESSMENT: CRITICALITY REDUNDANCY SCREENS CIL FLIGHT HDW/FUNC A B C NASA [2 /1R] [P] [P] [P] [X] * IOA [2 /1R] [P] [P] [P] [X] COMPARE [/] [] [] [] [] RECOMMENDATIONS: (If different from NASA) [/] [] [] [] [] (ADD/DELETE * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE [X]	MDAC ID				5118		(Т	'O 1	MMCA-	3)								
CRITICALITY REDUNDANCY SCREENS FLIGHT HDW/FUNC A B C NASA [2 /1R] [P] [P] [P] [X] * IOA [2 /1R] [P] [P] [P] [X] COMPARE [/] [] [] [] [] RECOMMENDATIONS: (If different from NASA) [/] [] [] [] [] [] * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE []	LEAD AN	ALYS	T:		K. S	СНМІ	ECK	PE	PER									
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ASSESSME	ENT	•												
	CRI		CAL	_	R	EDUN	IDANCY	SCR	EENS			CII		
	FLIGHT HDW/FUNC				A		E	3	C		· · · · · · · · · · · · · · · · · · ·	111	5M	
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SUBSYSTE MDAC ID:	M:		EPD&6 5120 RPC,		. (GS	E MAI	N B	OFF)				
LEAD ANA	LYS	T:	K. S	CHMEC	KPEP	ER						
ASSESSME	NT:											
-	CRI	TICAL		F	EDUN	DANCY	SCR	EENS			CII	
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REMARKS:											-	-

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SUBSYSTE MDAC ID: ITEM:	M:		EPD&C 5121 RPC,		(GSI	E MAI	IN B	ON)			
LEAD ANA	LYS	r:	K. SC	HMEC	KPEPI	ER	,				
ASSESSME	NT:									- 51.51	
	1	TICAL FLIGH	T				SCR		_	CII ITE	
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* CIL RE	TEN	TION :	RATION	IALE:	(If	app]	licab	7	ADEQUATE ADEQUATE] :]
REMARKS:											

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5	122	-	BASELII N							
	EPD&C 5122 RPC, 7.	5A (GSE	MAIN B O	N)							
LEAD ANALYST:	K. SCHM	ECKPEPE	R								
ASSESSMENT:		-									
CRITICAL FLIGH		REDUND	ANCY SCRE	ENS	CIL ITEM						
HDW/FU	NC	A	В	С							
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COMPARE [/N] [и ј	[N]	[N]	[N]						
RECOMMENDATIONS:	(If d	ifferen	t from NA	.SA)							
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* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X INADEQUATE [
INADEQUATE [] REMARKS: IOA CONCURS WITH NASA'S REEVALUATION DUE TO CONCERNS ABOUT INADVERTENT POWERING OF THE PREFLIGHT TEST BUS.											

ASSESSM ASSESSM NASA FM	ENT	ID:	E	/04/8 PD&C-! 5-6-2	5123					DATA ELINE NEW	[
	SUBSYSTEM: E MDAC ID: 5 ITEM: S LEAD ANALYST: K					ORIZE	ED (G	SE PW	R CON	TROL)			
LEAD AN	ALYS	ST:	K	. SCHI	1ECKI	PEPER							
ASSESSM	ENT:	:											
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* CIL R	ETEN	OIT	N RA	TIONA	LE: (If ap	plic	able)		UATE	[]	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/04/87 EPD&C-512 05-6-2048		NASA DATA BASELINE NEW				
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5124 SWITCH, M	OTORIZED (GSE	PWR CONTROL)				
LEAD ANALYST:	K. SCHMEC	KPEPER					
ASSESSMENT:							
CRITICAI FLIGH HDW/FU	IT	EDUNDANCY SCRE B	ENS C	CIL ITEM			
nDw/ FC		_					
NASA [3 /11 IOA [3 /3] [NA]] []	[P] []	[] *			
COMPARE [/N] [N] [N]	[N]	[]			
RECOMMENDATIONS	: (If dif	ferent from NA	SA)				
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* CIL RETENTION	RATIONALE:	(If applicabl	e) ADEQUATE INADEQUATE	[]			
REMARKS: IOA CONCURS WITH	H NASA AFTE	R FURTHER EXAM	INATION OF T	HE CIRCUIT.			

NASA FMEA #: 05-6-					C-5125					NASA DATA: BASELINE [] NEW [X]				
SUBSYSTE MDAC ID: ITEM:			EPD8 5125 FUSI	5	A TC	MAIN	DC	DIST		2	보고 (4	£		
LEAD ANA	LYSI	? :	к. s	CHMEC	KPEF	PER								
ASSESSME	NT:													
		CICAL		R	EDUN	IDANCY	SCF	REENS		_	IL TEM			
	FLIGHT HDW/FUNC			A		В		· C	٠	_				
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COMPARE	[/]	ſ]	[]	[11	1	[]		
RECOMMEN	DATI	ons:	(1	[f dif	fere	ent fr	mc	NASA)						
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* CIL RE		CION	RATIO	ONALE:	(If	appl	icak	A	DEQUA'		x]		
IOA CONC	URS									ASONS	LI	STED :	IN	

ASSESSMEN ASSESSMEN NASA FME	NT I	D:	EPD&C-	0&C-5126 BASELINE [] -6-2008B-1 NEW [X]											
SUBSYSTEM MDAC ID:			EPD&C 5126 FUSE,	200	A TO	MAI	N	DC D	IST	r <i>1</i>	ASSY 2				
LEAD ANA	LYSI	r:	K. SCI	HMEC	KPEPE	R									
ASSESSMENT:															
1		TICAL	R	REDUNDANCY SCREEN					NS .			[L PEM			
-			NC	A · E				В С				220			
NASA IOA	[2	2 /1R 2 /1R]	[P]]	F F]]	P F]] [X X] *]	
COMPARE	Į	/	1	[]	[]	[N	1	[]	
RECOMMEN	DAT	cons:	(If	dif	ferer	nt f	ro	om NA	SA)					
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	* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE []														
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ASSESSMENT ASSESSMENT NASA FMEA	ID:		-5127					ASA DATA BASELINI NEV		x]	
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5127 FUSE,	3A T	ro GSI	e moi	NITOR						
LEAD ANALY	ST:	K. SCH	IMECI	KPEPEI	₹							
ASSESSMENT	:											
CR	ITICALI FLIGHT		RI	EDUNDA	NCY	SCREI	ens			IL FEM	[
1	1C ·	A		В		С						
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REMARKS:							TIM	PAONIE	ι		J	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	•		NASA DATA: BASELINE [] NEW [X]						
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5128 RESISTOR,	1.2K (TO	GSE PW	R CONT)					
LEAD ANALYST:	K. SCHMECK	PEPER							
ASSESSMENT:									
CRITICAL: FLIGH		DUNDANCY	SCREEN	s	CIL ITEM				
HDW/FU		В		C					
NASA [3 /3 IOA [3 /3] [] [] []	[] *				
COMPARE [/] [] [] [1	[]				
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REMARKS:			I	NADEQUATE	[]				

ASSESSMEN ASSESSMEN NASA FMEA	EPD&C	-5129	€			 	BASEL	INE]			
SUBSYSTEM MDAC ID: ITEM:	ſ:		EPD&C 5129 RESIS	TOR,	5.1	K 1/4	W (T	o GSI	e moni	TOR))		
LEAD ANAI	LYST	:	K. SC	HMECI	KPEPI	ER							
ASSESSMEN	T:												
c			ITY	R	EDUNI	DANCY	SCR	EENS			CIL		
	FLIGHT HDW/FUNC								2				
NASA IOA	[3	/3 /3]	[]	[]	[]		[] ;	k
COMPARE	[/]	[]	[]	[1		[]	
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* CIL RETENTION RATION				ALE:	(If	appl	icab	le) INZ	ADEQUA ADEQUA	TE TE	[]	
REMARKS:											-	_	

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SUBSYSTE MDAC ID: ITEM:	M:	EPD&C 5130 RESIS		5.1	K 1/4	w (T	o GSI	MONI	TOR)		
LEAD ANA	LYST:	K. SC	HMEC	KPEP	ER							
ASSESSME	NT:											
	CRITICA FLIG		REDUNDANCY SO				EENS			CIL ITEM		
	HDW/F	UNC	A B			3 C						
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REMARKS:							TNI	ADEQUA	TLE	L	J	

ASSESSME ASSESSME NASA FME	NT I	D:	EPD&C 05-6-	-513 2336				N	iasa di Baseli I	INE	[x	
SUBSYSTE MDAC ID: ITEM:			EPD&C 5131 RESIS		1.2	K 2W						
LEAD ANA	LYST	•	K. SC	HMEC	KPEP	ER						
ASSESSME	TY:											
		ICAL		R	EDUN	DANCY	SCR	EENS			CIL	
	FLIGHT HDW/FUNC					A B			ВС			
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/06/87 EPD&C-5132 05-6-2342-		NASA DATA: BASELINE [] NEW [X]							
= -	EPD&C 5132 RESISTOR,	5.1K 1/4W	(TO N	MDM OF3)						
LEAD ANALYST:	K. SCHMECK	(PEPER	÷*							
ASSESSMENT:										
CRITICAL: FLIGHT		EDUNDANCY	SCREEN	1S	CIL					
HDW/FU		В		C	* T 2.	•				
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COMPARE [/] [] [] [[]	[]				
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ASSESSMENT DATE: 6, ASSESSMENT ID: EI NASA FMEA #: 05					C-513				N	IASA 1 BASE1		[] K]	
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LEAD ANA	ALY:	ST	:	K. S	CHMEC	KPEF	ER							
ASSESSMI														
CRITICA FLIG HDW/F				IT				SCR	REENS	•		CIL ITEM		
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SUBSYSTE MDAC ID:	M:		EPD&6 5134 RESIS		, 2K	1/4W	(TO	C&W)					
LEAD ANA	LYST	:	K. S	CHME	CKPEP	ER							
ASSESSME	NT:												
	ITY T	I	REDUN	DANCY	SCR	EENS			CIL ITEM				
	LIGH W/FU				В			С					
NASA IOA	[3 [3	/3 /3]	[[]	[]	[]		[]	*
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RECOMMEN	DATI	ons:	(I	f di:	ffere	nt fi	com N	ASA)					-
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SUBSYSTEM MDAC ID:	M:		EPD&C 5135 RESIS	ror,	14K	1/4W	(TO	C&W)					
LEAD ANA	LYST	:	K. SCI	HMECI	KPEPI	ER							
ASSESSME	NT:												
(ICAL:		RI	EDUNI	DANCY	SCRE	ENS			CIL ITEM		
	HDW/FU			NC A				C					
NASA IOA	[3	/3 /3]	[]	[]	[]]] *]		
COMPARE	[/]	[]	[]	[]	[]		
RECOMMEN	DATI	ons:	(If	difi	ferer	nt fro	om NA	SA)	•				
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REMARKS:								TIM	PPÄOVII	. [J		

	TN	II):	12/07/87 NASA DAT EPD&C-5136 BASELIN 05-6-2345B-1 NI								[x]							
SUBSYSTEM MDAC ID:	M:			EPI 513 SHO	36	. [oc	AMI	MET]	ER	۱ (TO	F/C	2)						
LEAD ANA	LYS	ST:	:	ĸ.	SCH	IMI	ECI	(PE	PER												
ASSESSME	NT	:																			
		F	ICAL: LIGH	r			RI A	EDU	NDA	NC	Y B	sc	REEN	s c				CI	L	ſ	
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COMPARE	[N	/N]		[N]		[N]	[N]			[]	
RECOMMEN	DA'	TI(ons:		(If	d.	if	fer	ent	í	Ero	om	NASA	.)							
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REMARKS: IOA AGRE HAZARDS	ES	W	ITH OPUL	NAS ATI	A DI	UE FR	T OM	O A TH	CH E E	Al X	NGI PE	E I RNA	IN NS	TS NK	22 • ,	206	C	ONC	EF	RN:	[NG

ASSESSME ASSESSME NASA FME	NT] A #:	ID:	EPD&C- 05-6-2	&C-5137 BASELINE [] 6-2253-1 NEW [X]									
SUBSYSTE MDAC ID:			EPD&C 5137 FUSE,	3A 7	ro dc	VOL	[METE	R					
LEAD ANA	LYSI	C:	K. SCI	HMECH	KPEPEI	R							
ASSESSME	NT:												
	SCRE	ENS			CIL ITEM								
		FLIGH OW/FU	NC	A		В			TIEF	•			
NASA IOA	[3	3 /3]	[]	[]	[] .		[] *	
COMPARE	C	/]	[]	[]	[]		[]	
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* CIL RE	TENI	ION I	RATION	ALE:	(If a	appl:	icable	Al	DEQUAT DEQUAT		[]	
REMARKS:									-		-	•	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/06/87 EPD&C-5138 05-6-2270-			NASA DAT BASELIN NE]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5138 FUSE, 3A T	o DC VOL	rmeter			
LEAD ANALYST:	K. SCHMECK	PEPER				
ASSESSMENT:						,
CRITICAL FLIGH		DUNDANCY	SCREEN	ıs	CIL	
HDW/FU		В	_	С		
NASA [3 /3 IOA [3 /3] [] [] []	[] *]
COMPARE [/] [] []	. 1	[]
RECOMMENDATIONS:	(If diff	erent fr	om NASA	A)		
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* CIL RETENTION	RATIONALE:	(If appl		ADEQUATE]
REMARKS:]	INADEQUATE	ß []

ASSESSMENT DATE: 1/01/88 ASSESSMENT ID: EPD&C-5139 NASA FMEA #: 05-6-2242-1												ASA DA BASELI N		[x]	
SUBSYSTEM MDAC ID:	M:		EPD&C 5139 FUSE,		ΟA	TO E	ess	В	JS 2	CA							
LEAD ANA	LYSI	!:	K. SC	HME	ECI	KPEPE	ER										
ASSESSME	NT:																
•		'ICAL'			RI	EDUNI)AN	CY	SCR	EENS	3				IL PEN	1	
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COMPARE	[/]	[]	[N	3	[]		Į	N]	
RECOMMEN	DATI	ons:	(If	di	Lfi	ferer	nt	fro	om N	(ASA)		-					
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* CIL RE	TENT	ION	RATION	ALI	ጀ:	(If	ap	pl:	icab			DEQUAT DEQUAT]	
REMARKS:	URS	WITH	NASA'	s s	SCI	REEN	"B	٠.									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		L	NASA DATA BASELINE NEW	[]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5140 FUSE, 200A	TO DC TIE BUS		
LEAD ANALYST:	K. SCHMECKE	PEPER		
ASSESSMENT:				
CRITICAL FLIGH		OUNDANCY SCREE	ns	CIL ITEM
HDW/FU		В	С	
NASA [3 /1R IOA [3 /1R		[NA] [F]	[P] [P]	[x] *
COMPARE [/) (:] [и]	[]	[N]
RECOMMENDATIONS:	(If diffe	erent from NAS	A)	
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* CIL RETENTION REMARKS:	RATIONALE:	(If applicable	ADEQUATE	[]
IOA CONCURS WITH	NASA'S SCR	EEN "B".		

ASSESSME ASSESSME NASA FME	NT I	D:	6/06/8 EPD&C- 05-6-3	-51	41				ASA DAT BASELIN NI		x]	
SUBSYSTEMDAC ID:			EPD&C 5141 FUSE,	20	OA TO	DC T	IE E	BUS	_			
LEAD ANA	LYSI	? :	K. SC	HME	CKPEP	ER						
ASSESSME	NT:											
•		'ICAL	ITY r	1	REDUN	DANCY	SCF	REENS		CI	L	
	_	W/FUI		1	A	В		С				
NASA IOA	[3	/1R]	[]	P] P]	[N.	A]]	[P [P]]	x]	*
COMPARE	•	/	1	[]	[N]	[]	[N]	
RECOMMEN	DATI	ons:	(If	di:	ffere	nt fr	om N	NASA)				
	[/]	[]	[]	[]	[(ADD/	DEL	
* CIL RE	TENT	I NOI	RATION	ALE	: (If	appl	icak	Al	DEQUATE DEQUATE] 2]	
REMARKS:	URS	WITH	NASA'S	s s	CREEN	"B".						

ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5142 NASA FMEA #: 05-6-2260-1									ASA DATA BASELIN NE		×]	
SUBSYSTEMDAC ID:			EPD8 5142 FUSI)A TC	DC '	TIE E	BUS					
LEAD AND	LYSI	!:	K. 5	CHME	CKPEF	PER			To a				
ASSESSMI	ENT:												
	FLIGHT						Y SCF	REENS			IL TEM	1	
	HE	W/FU	NC	1	A		В	C	;				
NASA IOA	[3			[]	?] ?]	[[NA] F]	[P]	[[x]	*
COMPARE	[/]	[]	[и]	[] .	[N]	
RECOMME	NDATI	ons:	(:	If di:	ffere	ent f	rom N	IASA)					
	[/]	[]	[]	[1 ([ADD,	/DI] ELI	ETE
* CIL RI	:				·	-		A	DEQUATE DEQUATE]	
IOA CON	JUKS	MILH	NAS	W.2 2	CKEEL	иВ	•						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5143		BASELINE NEW	and the second s
	EPD&C 5143 FUSE, 1502	A TO DC TIE BUS		
LEAD ANALYST:	K. SCHMECI	KPEPER		
ASSESSMENT:				
CRITICAL FLIGH HDW/FU	r	EDUNDANCY SCREE B	ns C	CIL ITEM
NASA [3 /1R IOA [3 /1R] [P] [NA]] [F]	[P] [P]	[] * [X]
COMPARE [/] [] [N]	[]	[N]
RECOMMENDATIONS:	(If dif	ferent from NAS	A)	
[/] [] []	[] (AI	[] OD/DELETE)
* CIL RETENTION	RATIONALE:	(If applicable) ADEQUATE INADEQUATE	[]
REMARKS: IOA CONCURS WITH	NASA'S SCI	REEN "B".		

	6/06/87 EPD&C-5144 05-6-2260-		NASA DATA BASELINE NEW	
	EPD&C 5144 FUSE, 1502	A TO DC TIE BU	s	
LEAD ANALYST:	K. SCHMECI	KPEPER		
ASSESSMENT:				
CRITICAL FLIGH HDW/FU	${f T}$	EDUNDANCY SCRE B	ENS	CIL ITEM
•		ı (NA)	r Þ 1	r 1 *
IOA [3 /1R] [P] [NA]] [F]	[P]	[X] *
COMPARE [/] [] [N]	[]	[N]
RECOMMENDATIONS:	(If dif:	ferent from NA	.SA)	
] [] []	[]	[] ADD/DELETE)
* CIL RETENTION REMARKS:	RATIONALE:	(If applicabl	e) ADEQUATE INADEQUATE	
IOA CONCURS WITH	NASA'S SC	REEN "B".		

ASSESSME ASSESSME NASA FME	NT I	D:	6/06/ EPD&C 05-6-	-514				·	NASA DATA: BASELINE [] NEW [X]						
SUBSYSTE MDAC ID:			EPD&C 5145 FUSE,		то м	PCA-2	, FPG	CA-2	, APCA	-5					
LEAD ANA	LYST	:	K. SC	HMEC	KPEP	ER									
ASSESSME	NT:														
	F	LIGH	ITY T NC	R A		DANCY B			C ***		CII				
NASA IOA	[3	/3]]	[] .]]]] ,	*		
COMPARE	[/]	[]	(]	[1		[]			
RECOMMEN	DATI	ons:	(If	dif	fere	nt fr	om N2	AŜĀ)							
	[/]	[]	[]	[]	(A)	[DD/E] ELE:	ΓE)		
* CIL RE	TENT	ION	RATION	ALE:	(If	appl	icabl		ADEQUA' ADEQUA'		[]			

ASSESSME ASSESSME NASA FME	NT I	D:	EPI	2/15/87 NASA DATA: PD&C-5146 BASELINE [] 5-6-2008B-1 NEW [X]																
SUBSYSTE MDAC ID: ITEM:			EPI 514 FUS		20	0A	то	AP	CA-	-5										
LEAD ANA	LYST	:	ĸ.	SCH	ME	CK	PEP	ER												
ASSESSME	NT:																			
CRITICALITY REDUNDANCY SCREENS FLIGHT										CIL ITEM										
	_	W/FU				A			В				С			_		•		
NASA IOA	[2	/1R /1R]		[P P]	[F F]]	P F]] [X X]	*	
COMPARE	[/]		[]	[]		[N]		[]		
RECOMMEN	DATI	ons:		(If	di	ff	ere	nt	fr	mc	NAS	A))							
	[/]		[]	ſ]		[3	(<i>1</i>		/D		ETE)
* CIL RE		ON	RAT	IONA	LE	:	(If	ap	pl.	ica	ble				ATE ATE]	x]		
REMARKS: IOA CONC THE FMEA	URS	WITH	TH:	E NA EN "	SA C"	F	REEV DIFF	ALU ERE	AT NC	E V	I FO	R	TI T	IE R	EASC	ons	L	IS'	TED	IN

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5147	NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5147 FUSE, 200A TO AF	PCA-5	-
LEAD ANALYST:	K. SCHMECKPEPER		
ASSESSMENT:			
CRITICAL FLIGH	CIL ITEM		
HDW/FU		ВС	TTEM
NASA [2 /1R IOA [2 /1R] [P] [F] [P] F] [F]	[X] * [X]
COMPARE [/] [] [] [и]	t 1 · · · ·
RECOMMENDATIONS:	(If different	from NASA)	·
] [] [] [] (AI	[] DD/DELETE)
* CIL RETENTION REMARKS:	RATIONALE: (If ap	plicable) ADEQUATE INADEQUATE	
IOA CONCURS WITH	THE NASA REEVALU CREEN "C" DIFFERE	ATION FOR THE REASON NCE WAS A TYPO.	S LISTED IN

	NT I	D:	EP	<u>.</u> ,, .						SA DA' ASELI N]			
SUBSYSTE MDAC ID: ITEM:			51	48	, M	ото	RIZEI) ((DC	TIE	BU	S MAI	NB)			
LEAD ANA	LYST	:	ĸ.	SCH	MEC	KPE	PER									
ASSESSME	NT:															
	F	LIGH'	r				NDANG		SCR	EENS				I L FEI	M	
	HD	W/FU	NC		A	•		В			С					
NASA IOA		/1R /1R]		[P [P]	. [NA P	A]	[[P P]	[x]	*
COMPARE	[N	/]		[]	[N]	[]	[N]	
RECOMMEN	DATI	ons:		(If	dif	fer	ent i	fro	om N	'ASA')					
• * • <u>-</u> • .		/]		[]	[]	[]	(ADD	/D	ELI	ETE)
* CIL RE	TENT	ON :	RAT	'IONA	LE:	(I	f app	pl:	icab		AD NAD	EQUAT EQUAT	E []	
REMARKS: IOA CONC THE CIRC	URS	WITH	NA	SA'S	RE	EVA	LUAT	IOI	N AF	TER	FU	RTHER	ANA	LY	SI	S OF

ASSESSMENT DATE: 6/04/87 ASSESSMENT ID: EPD&C-5149 NASA FMEA #: 05-6-2004-2 NASA DATA: BASELINE [] NEW [X]									
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5149 SWITCH, MOTORIZED (I	C TIE BUS MAIN B)							
LEAD ANALYST:	K. SCHMECKPEPER								
ASSESSMENT:									
CRITICAL FLIGH HDW/FU	T	C C CIL							
NASA [3 /1R IOA [3 /3] [P] [NA]	[P] [[] [] *						
COMPARE [/N	ј [иј [иј	[11]]						
RECOMMENDATIONS:	(If different from	n NASA)							
] [] []	[] [(ADD/DE:							
* CIL RETENTION	RATIONALE: (If applic	·]						
		CONCERNING TRANSIENTS HOWEVER BUS TIE IS F	LIGHT						

ASSESSME ASSESSME NASA FME	NT	II		EPD&C-	2/15/87 NASA DATA: PD&C-5150 BASELINE [] 5-6-2003-2 NEW [X]												
SUBSYSTEMDAC ID:	M:			EPD&C 5150 SWITCH	Ι, :	MC	TORI 2	ZEI	o ((MAIN	. 1	oc	BUS B	F/C	: I	WR)
LEAD ANA	LY:	ST	:	K. SCH	IME	CF	KPEPEF	₹ .									
ASSESSME	NT	:													٠.,		
	CR:			ITY		RE	EDUNDA	N	CY	SCRE	El	NS		•	C]	L	
]		LIGH' W/FU	_		A			В			C				٢١٠٠	
NASA IOA	[[/1R /1R]	[P P]	[F P]		[P]		[[x] *
COMPARE	[N	/]	[]	[N]		[]		[N]
RECOMMEN	'DA'	TI	ons:	(If	di	fí	ferent	t :	fr	om NA	s	A)					
-	[/]	[]	[]		[]	(AI] ,dc	/DE] LETE)
* CIL RE	TE	ΝT	ION :	RATION	ALE	: :	(If a	ap)	pl:	icabl		Α	DEQUA'		[x]
REMARKS: IOA CONC CONSIDER	UR	S HE	WITH LOS	THE N	ASA V E	SS	REEVAI SENTI	LU.	AT:	ION A	S	IO A S	A DID INGLE	NOT FAI	r I	INI JRE	TIALLY

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/05/87 EPD&C-515 05-6-2003	NASA DATA: BASELINE [] NEW [X]									
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5151 SWITCH, M	IOTORIZEI	OC BUS B F/	C PWR)							
LEAD ANALYST:	K. SCHMEC	KPEPER			• · · · · ·						
ASSESSMENT:											
CRITICAL		REDUNDANC	CY SCREEN	is	CIL						
FLIGH HDW/FU			В	С	ITEM						
NASA [2 /1R IOA [2 /1R) [P] [P] P]	[X] *						
COMPARE [/] [] [] [. 1	[]						
RECOMMENDATIONS:	(If dif	ferent f	rom NASA	(1)							
] [] [] [[] .DD/DELETE)						
· ·	* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE []										
REMARKS: IOA CONCURS WITH	NASA THAT	THIS FA	ILURE IS	1/1 FOR R	TLS ABORT.						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-515	EPD&C-5152 BASEL									
	EPD&C 5152 SWITCH, M										
LEAD ANALYST:	K. SCHMEC	KPEPER									
ASSESSMENT:											
CRITICAL FLIGH		EDUNDANCY	SCREENS	CIL ITEM							
	NC A	В	C	2021							
NASA [2 /1R IOA [2 /1R	[P	[P] [P]] [P]	[X] * [X]							
COMPARE [/] [] [] []	[]							
RECOMMENDATIONS:	(If dif	ferent fro	om NASA)								
[/] [] [] []	[] (ADD/DELETE)							
* CIL RETENTION	RATIONALE:	(If appli	icable) ADE(INADE(QUATE [X] QUATE []							
REMARKS: IOA CONCURS WITH	NASA THAT	THIS FAIR	LURE IS 1/1	FOR RTLS ABORT.							

ASSESSMENT ASSESSMENT NASA FMEA #	ID:	EPD&C-51	.53		NASA DATA: BASELINE [] NEW [X]					
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5153 SWITCH,	MOTORIZ	ED (MAIN	DC BUS C F/C	C PWR)				
LEAD ANALYS	T:	к. ѕсни	CKPEPER		1 <u></u>					
ASSESSMENT:										
	TICALI FLIGHT	1	REDUNDA A	NCY SCREE	ens C	CIL ITEM				
1.1	DHYFOR	C	A	В	•					
NASA [IOA [2 /1R 3 /1R] [P] P]	[F] [P]	[P] [P]	[X] * []				
COMPARE [N /] [3	[N]	[]	[N]				
RECOMMENDAT	ions:	(If di	fferent	from NAS	SA)					
	/] [3	[]	[] (AI	[DD/DELETE)				
* CIL RETEN	TION R	ATIONALE	: (If a	pplicable	e) ADEQUATE INADEQUATE	[x]				
					S IOA DID NOT A SINGLE FAI					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	NASA DATA: BASELINE NEW				
	EPD&C 5154 SWITCH,	MOTORIZE	O (DC TIE	BUS MAIN	C)
LEAD ANALYST:	K. SCHMI	ECKPEPER		*A	
ASSESSMENT:					
CRITICAL FLIGH HDW/FU	T	REDUNDANO A	CY SCREEN	s C	CIL ITEM
NASA [3 /1R		•	NAI [рl	r 1 *
IOA [3 /3	;	P] [i	P]	į
COMPARE [/N] [и] [и][n]	[]
RECOMMENDATIONS:	(If d	ifferent :	from NASA)	
[/] [] [] [] _. (A)	[] DD/DELETE)
* CIL RETENTION	RATIONAL	E: (If ap)		ADEQUATE	
REMARKS:				NADEQUATE	
IOA CONCURS WITH AFFECTING THE GP RULED OUT DURING	CS DURING	-EVALUATIO G DE-ORBI	ON CONCER I. HOWEV	NING TRANS ER BÚS TIE	IENTS IS FLIGHT

ASSESSME ASSESSME NASA FME	NT	I	D:	EPI	-//								DATA SELIN NE) x]	
SUBSYSTE MDAC ID:				EPI 515 SWI	55	, м	OTOR	IZED) (DC T	ΙE	BUS	MAIN	C)		
LEAD ANA	LYS	ST	:	ĸ.	SCHI	MEC	KPEP	ER								
ASSESSME	NT	:														
	CR		ICAL:			R	EDUN	DANC	Y	SCRE	ENS	3		CI:		
	1	_	W/FUI			A			В			С		11.	GP1	
NASA IOA]	3 2	/1R /1R]		[P]	[[NA P]	[P] P]		[x]	*
COMPARE	[N	/]		[]	[N]	[]		[]	N]	
RECOMMEN	DA:	ΓI¢	ONS:	((If o	dif	fere	nt f	ro	m NA	SA)					
-	(/]		[]	[] .	[]	(2	[ADD/	DEL:	ETE)
* CIL RE	TEI	T.	ION I	RATI	[ONA]	LE:	(If	app	oli	cabl	•		UATE UATE]	
REMARKS:	UR		WITH	NAS	SA'S	RE	EVAL	UATI	ON	AFT				_	YSI	s of

	SSMENT DATE: 6/06/87 SSMENT ID: EPD&C-5156 FMEA #: 05-6-2388A-2							NASA DATA: BASELINE [] NEW [X]							
SUBSYSTE MDAC ID:	M:		EPD& 5156 RPC,	C 7.5A	(DC	TIE	BUS	MAIN	В)						
LEAD ANA	LYSI	r:	K. S	CHMEC	KPEP	ER						" ;			
ASSESSME	NT:														
		TICAL FLIGH		R	EDUN	DANCY	SCR	EENS	- :: .		CII				
	_	OW/FU	_	A		E	3	(2			••			
NASA IOA	[:	3 /3 3 /3]	[]	[]	[[]		[] '	*		
COMPARE	[/]	[]	ſ]	[]		[]			
RECOMMEN	DAT:	ions:	(I	f dif	fere	nt fr	om N	ASA)							
	[/]	[]	Ĺ]	[]	(A	[DD/[) DELE	TE)		
* CIL RE	TEN!	TION	RATIO	NALE:	(If	appl	licab		ADEQU.]]			
REMARKS:									-		•	•			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5157		ATA: INE [] NEW [X]
	EPD&C 5157 RPC, 7.5A (DC	TIE BUS MAIN B)	
LEAD ANALYST:	K. SCHMECKPEPE	R	
ASSESSMENT:			
CRITICAL: FLIGHT	-	ANCY SCREENS	CIL ITEM
HDW/FUI	NC A	ВС	
NASA [3 /1R IOA [3 /3] [P]] []	[NA] [P] [] []	[] *
COMPARE [/N] [N]	[N] [N]	[]
RECOMMENDATIONS:	(If differen	t from NASA)	
[/] []	[] []	[] (ADD/DELETE)
* CIL RETENTION I	RATIONALE: (If	applicable) ADEQUAT INADEQUAT	• •
REMARKS: IOA CONCURS WITH CONCERNS.	NASA'S REEVALU	ATION DUE TO FUEL C	

ASSESSME ASSESSME NASA FME	TИ	II):	EPD						NASA DAT BASELIN NI		
SUBSYSTE MDAC ID:				EPD 515 RPC		(DC	TIE	BUS	MAIN	В)		
LEAD ANA	LYS	ST	:	ĸ.	SCHMEC	KPEP	ER			-		
ASSESSME	TY	:										
	CR		ICAL LIGH	ITY	RI	EDUN	DANCY	SCI	REENS		CI:	
	1			NC	A		E	3		С		
NASA IOA	[3	/3 /3]]]	[]]]	[] *]
COMPARE	[/]	[]	[]	[]	[]
RECOMMEN	IDA!	ri	ons:	(If dif	fere	nt fr	om 1	NASA)			
-	[,	1/]	[]	[]	[]	[(ADD/)] DELETE)
* CIL RE	TE	NT:	ION	RATI	ONALE:	(If	appl	ica		ADEQUATI	-]

REMARKS:

ASSESSMENT DATI ASSESSMENT ID: NASA FMEA #:	EPD&C-5	159		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5159 RPC, 7.5	5A (DC TIE	BUS MAIN	1 B)	
LEAD ANALYST:	к. ѕсни	ECKPEPER			
ASSESSMENT:					
CRITIC:	LITY HT	REDUNDANO	CY SCREENS	3	CIL ITEM
HDW/		A	В	c	
NASA [3 /: IOA [3 /:	R] [P] [NA] [P]	[] *
COMPARE [/1] [N] [и] [N]	[]
RECOMMENDATIONS	: (If d:	ifferent f	from NASA)		
[/] [] [] [] (AI	[] DD/DELETE)
* CIL RETENTION	RATIONALI	E: (If app	·	ADEQUATE	[]
REMARKS: IOA CONCURS WI'MITH INADVERTED BUS TIE.					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/13/87 EPD&C-5160 05-6-2387				DATA: ELINE NEW]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5160 RPC, 7.5A	(MAIN D	C BUS E	3 F/C P	WR)		
LEAD ANALYST:	K. SCHMEC	KPEPER			:	-	
ASSESSMENT:							
CRITICAI FLIGH HDW/FU	T	EDUNDANC	Y SCREE	ens C	-	CIL	
·			_				7 ±
NASA [3 /3 IOA [3 /3] [] []			[] ^
COMPARE [/] [] []	[]		[]
RECOMMENDATIONS:	(If dif	ferent f	rom NAS	SA)			
] [] []	[]	(A)	[DD/D] ELETE)
* CIL RETENTION	RATIONALE:	(If app	olicable	e) ADEQ INADEQ	UATE	[]
REMARKS:				THYDE	CONTR	ι	J

ASSESSMENT DATA ASSESSMENT ID: NASA FMEA #:	EPD&C	87 -5161 2387 A- 1		NASA DATA BASELINE NEW	[]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5161 RPC,	7.5A (MAI	N DC BUS	B F/C PWR)	
LEAD ANALYST:	K. SC	нмескрере	R		
ASSESSMENT:					
	ALITY GHT	REDUND	ANCY SCRE		CIL ITEM
HDW/	FUNC	A	В	С	
NASA [3 /	1R] 3]	[P] []	[NA] []	[P] []	[] *
COMPARE [/	n]	[N]	[11]	[N]	[]
RECOMMENDATION	s: (If	differen	t from NA	SA)	
	1	[]	[]	[] (A	[]. DD/DELETE)
* CIL RETENTIO	N RATION	ALE: (If	applicabl	e) ADEQUATE	f 1
DEWI DVC -				INADEQUATE	
REMARKS: IOA CONCURS WI CONCERNS.	TH NASA'S	S REEVALU	ATION DUE	TO FUEL CEL	L SAFING

ASSESSMENT DATE: 6/13/87 ASSESSMENT ID: EPD&C-5162 NASA FMEA #: 05-6-2387B-2								r	BASELI N]	
SUBSYSTE MDAC ID:	M:		EPD&0 5162 RPC,		(MA	IN DC	BUS	B F/	C PWR)				
LEAD ANA	LYS'	T:	K. S	CHMEC	KPEP	ER							
ASSESSME	NT:											•	
		TICAL		R	EDUN	DANCY	SCR	EENS			CII		
		FLIGH DW/FU	NC	· A		- В	в с				III	111	
NASA IOA	[:	3 /3 3 /3]	[]	[]	[]		[[]	*
COMPARE	[/]	[]	[]	[]		[]	
RECOMMEN	DAT:	ions:	(I	f dif	fere	ent fr	om N	ASA)					
-	[/]	[]	[]	[]	(AI	[DD/E) DELE	TE)
* CIL RE	TEN'	TION	RATIO	NALE:	(If	appl	icab	7	ADEQUAT		[]	
REMARKS:									~		•	•	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-51	L63		NASA DATA: BASELINE NEW	[]	`. <u>.</u>
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5163 RPC, 7.5	SA (MAIN	DC BUS B	F/C PWR)		
LEAD ANALYST:	K. SCHME	CKPEPER				
ASSESSMENT:						
CRITICAL: FLIGH		REDUNDAN	CY SCREEN	IS	CIL ITEM	
HDW/FUI	NC -	A	В	С		
NASA [3 /1R IOA [3 /3] [P] [NA] [AN	P]	[]	*
COMPARE [/N] [и] [и] [N]	[]	
RECOMMENDATIONS:	(If di	fferent	from NASA	7)		
] [] [] [] (AI	[] DD/DELE	ETE)
* CIL RETENTION	RATIONALE	: (If ap		ADEQUATE		
REMARKS:			1	NADEQUATE	L J	
IOA CONCURS WITH WITH INADVERTENT A MAIN DC BUS FROPERFORMED THE BUS	POWER ON OM THE FU	THE PREDEL.	FLIGHT TE	ST BUS WOUL	LD DISC	CONNECT

ASSESSME ASSESSME NASA FME	NT ID:	6/04/8° EPD&C- 05-6-2	5164		NASA DATA: BASELINE [] NEW [X]						
SUBSYSTE MDAC ID:	M:	EPD&C 5164 DIODE,	ISOLAT	ION 35 <i>1</i>	A						
LEAD ANA	LYST:	K. SCH	MECKPEP	ER							
ASSESSME	NT:										
	CRITICAL FLIGH		REDUN	DANCY S	CREENS	5	CIL				
	HDW/FU		A	В		C		•			
NASA IOA	[3 /3 [3 /3]	[]	. [] []	[] *			
COMPARE	[/]	[]	[] []	[]			
RECOMMEN	DATIONS:	(If	differe	nt from	n NASA))					
-	[/]	[]	[] [] (2	[ADD/D] ELETE			
* CIL RE	TENTION	RATIONA	LE: (If	appli	cable)	ADEQUATE	[]			
REMARKS:					II	NADEQUATE	-	j			

	SMENT DATE: 7/01/87 SMENT ID: EPD&C-5164A FMEA #: 05-6-2207-3								NASA DATA BASELINI NEV		x]	
SUBSYSTEM MDAC ID:	M:		EPD&C 5164 DIODE	, IS	OLAT:	ION 3	35A					
LEAD ANA	Lyst	:	K. SCI	HMEC	KPEPI	ER						
ASSESSME	NT:											
(F	LIGHT	ety P NC			DANCY		ens	c ·	CI	L	
NASA IOA	[3	/1R /1R]	[P]	[] []	NA] NA]	[P] P]]]	*
COMPARE	[/]	[]	[]	[[]	
RECOMMEN	DATI	ons:	(If	dif	fere	nt fr	com NAS	SA)				
-	ĺ	/]	[]	[]	[] (2		DEL	ETE)
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ASSESSME ASSESSME NASA FME	NΤ	ID:	EP	5/19/87 PD&C-5165 95-6-2207-2								ASA DAT BASELII NI	NĒ]		
SUBSYSTE MDAC ID: ITEM:			51		I	so	LATIC	N	35	5 A							
LEAD ANA	LYS	T:	K.	SCH	ΜE	CK	PEPE	2									
ASSESSME	NT:																
		TICAI FLIGH	T				DUND	N		SCRI	EEN		***		CII		
	H	DW/FU	NC			A			В			С					
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COMPARE	[/N]		[N]	[N]	[N]		[]	
RECOMMEN	TAD	'IONS		(If	di	ff	erent	t :	fro	om Ni	ASA)					
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ASSESSME ASSESSME NASA FME	NT :	ID:		-516			NASA DATA: BASELINE [] NEW [X]							
SUBSYSTE MDAC ID: ITEM:	м:		EPD&C 5166 DIODE		OLAT	'ION 3	35A							
LEAD ANA	LYS	T:	K. sc	CHMEC	KPEP	ER								
ASSESSME	NT:													
		TICAL		R	EDUN	DANCY	SCR	EENS			CII			
		FLIGH' DW/FUI		A		E	3	C	2		ITE	EM		
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COMPARE	[/]	[]	[]	[]		[]		
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* CIL RE	TEN'	TION 1	RATION	IALE:	(If	appl	icab.		ADEQUA ADEQUA	TE	[]		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	7/01/87 EPD&C-5166A 05-6-2207-3	NASA DATA BASELINE NEW	[]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5166 DIODE, ISOLATIO	N 35A	
LEAD ANALYST:	K. SCHMECKPEPER	:	
ASSESSMENT:			
CRITICAL FLIGH		NCY SCREENS	CIL ITEM
HDW/FU	NC A	ВС	
NASA [3 /1R IOA [3 /1R] [P]] [P]	[NA] [P] [NA] [P]	[] *
COMPARE [/] []	[] []	[]
RECOMMENDATIONS:	(If different	from NASA)	
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* CIL RETENTION	RATIONALE: (If a	applicable) ADEQUATE INADEQUATE	[]

REMARKS:

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5167	NASA DATA: BASELINE [] NEW [X]						
	EPD&C 5167 DIODE, ISOLATION	N 35A						
LEAD ANALYST:	K. SCHMECKPEPER							
ASSESSMENT:								
CRITICAL: FLIGHT		ICY SCREENS	CIL ITEM					
HDW/FUI		в с						
NASA [3 /1R IOA [3 /3] [P] [[NA] [P] []	[] *					
COMPARE [/N] [и] ([и] [и]	[]					
RECOMMENDATIONS:	(If different	from NASA)						
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* CIL RETENTION 1	RATIONALE: (If ag	oplicable) ADEQUATE INADEQUATE						
REMARKS: IOA CONCURS WITH OF THE PREFLIGHT		CERNS ABOUT INADVERT	ENT POWERING					

ASSESSME ASSESSME NASA FME	NT ID:	EPD	1/87 20-5168 5-2207					NASA DA BASELI N	NE			
SUBSYSTE MDAC ID:		EPD8 5168 DIO		OLAT	ION 3	5 A						
LEAD ANA	LYST:	к. s	CHMEC	KPEP	ER							
ASSESSME	NT:											
		ALITY GHT	R	EDUN	DANCY	SCR	EENS			CIL		
	-	FUNC	A		E	3	ı	C				
NASA IOA	[3 /	3] 3]]]	[]	[[]		[]	*
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SUBSYSTEM MDAC ID:	M:		EPD&C 5168 DIODE	, IS	OLAT:	ION 3	35A						
LEAD ANA	LYST:		K. SCI	HMEC	KPEP	ER							
ASSESSME	NT:												
(CALI LIGHT	<u>ר</u>	R: A		DANCY F	SCREI	ENS	c		CI IT		
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COMPARE	[/]	[]	[]	[]		[]	
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* CIL RE	renti	ON I	RATION	ALE:	(If	app]	licable		ADEQUAT	E E	[]	
REMARKS:										_	L	J	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/19/87 EPD&C-5169 05-6-2207-2	NASA DĀTĀ BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5169 DIODE, ISOLATION	35A	
LEAD ANALYST:	K. SCHMECKPEPER		
ASSESSMENT:			
CRITICAL		CY SCREENS	CIL ITEM
FLIGHT HDW/FUI		В С	
NASA [3 /1R IOA [3 /3] [P] [NA] [P]] []	[] *
COMPARE [/N] [N] [и] [и]	[]
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* CIL RETENTION	RATIONALE: (If app	plicable) ADEQUATE INADEQUATE	[]
REMARKS: IOA CONCURS WITH OF THE PREFLIGHT		ERNS ABOUT INADVERT	

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SUBSYSTEM MDAC ID: ITEM:	M:		EPI 517 DIC	70	IS	LAIC	CION :	35A					na kuz	
LEAD ANAI	LYST	:	ĸ.	SCHM	EC	KPEI	PER							
ASSESSMEN	NT:													
(ICALI LIGHT			R	EDUN	IDANC	Y SCF	REENS			CII		
	HD	W/FUI	1C		A		1	В		C				
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COMPARE	[/N]	[N]	[]	4]	[n j		[] .	
RECOMMENI	OATI	ons:	((If d	lif:	fere	ent fi	com N	IASA)			j.		
-	[/]	(]	[]	[]	(A)	[DD/I] DELET	Œ)
* CIL RET	ren't	ION I	RATI	IANO	E:	(If	appl	licak		ADÉQ	UATE UATE]	
REMARKS:	JRS 1	WITH	NAS	A DU	E :	ro f	UEL (CELL	SAFI	NG C	ONCER	NS.		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	7/01/87 EPD&C-5170A 05-6-2207-3		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5170 DIODE, ISOLAT	ION 35A		
LEAD ANALYST:	K. SCHMECKPEP	PER		
ASSESSMENT:				
CRITICAL FLIGH HDW/FU	T	idancy scree B	ens C	CIL ITEM
NASA [3 /1R IOA [3 /1R	[P] [P]	[NA] [NA]	[P] [P]	[] *
COMPARE [/] []	[]	[]	[]
RECOMMENDATIONS:	(If differe	ent from NAS	SA)	
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* CIL RETENTION REMARKS:	RATIONALE: (If	f applicable	∍) ADEQUATE INADEQUATE	

ASSESSME ASSESSME NASA FME	NT I	D:	EPI	.9/87 &C-517 6-2207]	NASA D. Basel]	÷ / / /
SUBSYSTE MDAC ID: ITEM:			EPD 517 DIC		LAIC	ION 3!	5 A				·	Salas a
LEAD ANA	LYSI	r:	ĸ.	SCHMEC	KPEI	ER						
ASSESSME	NT:											
		CICAL		R	EDUN	IDANCY	SC	REENS			IL	
	-	LIGH W/FU	_	A		В		(3	T.	TEM	
NASA IOA	[3	/1R /3]	. [P]	[N2]	[]	?]]]	*
COMPARE	[/N]	[И]	[14]	[]	1]	[]	
RECOMMEN	DATI	ons:	(If dif	fere	nt fro	om l	NASA)				
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REMARKS: IOA CONC					C	ONCERN	is i	ABOUT	INADVI	ERTEN'	r Pow	VERING

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/07/87 EPD&C-5172 05-6-2263-			NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5172 CIRCUIT BR	REAKER,	5A (MN B	CONTR)	Lide Nuema (Inc.) in minima in
LEAD ANALYST:	K. SCHMECK	(PEPER			
ASSESSMENT:					
CRITICAL		DUNDANC	Y SCREEN	S	CIL ITEM
FLIGH HDW/FU			В	С	11211
NASA [2 /1R IOA [3 /1R] [P]] [F] [P] [P] P]	[X] *
COMPARE [N /] [] [и] []	[N]
RECOMMENDATIONS:	(If diff	ferent f	rom NASA)	•
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* CIL RETENTION	RATIONALE:	(If app		ADEQUATE NADEQUATE	
REMARKS: IOA CONCURS WITH CONCERNS.	NASA'S REI	EVALUATI	ON DUE T	O FUEL CEL	L SAFING

ASSESSMI ASSESSMI NASA FMI	ENT	ID:	EPD8	5/87 6C-517 5-2263]	NASA DAT BASELIN NE		k]
SUBSYSTI MDAC ID ITEM:			EPDS 5173 CIRC	3	BREAF	CER, 5	5A (M	IN B	CONTR)	*** *** ***	
LEAD AN	ALYS	T:	K. S	CHME	CKPE	PER					
ASSESSMI	ENT:										
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NASA IOA		3 /3 3 /3	_	[]	[]	ĵ []	[] *
COMPARE	[/]	[]	[]	[1	[]
RECOMMEN	NDAT	'IONS:	(I	f dif	fere	ent fr	om N	ASA)			
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SUBSYSTE MDAC ID:	M:		EPD&C 5174 CIRCUI	ſΤ	BF	REAKE	R,	5 <i>F</i>	\ TH	ERMA	L	(MAIN	В	CON	TR)
LEAD ANA	LYST	:	K. SCI	IME	CI	KPEPE	R								
ASSESSME	NT:														
	F	ICAL LIGH	r		RI	EDUND	ANC		SCR					CIL	
	HD	W/FU	NC		Α			В			С				
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REMARKS:	URS	WITH	NASA'	s s	SCI	REEN	"B	٠.							

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ASSESSMEN ASSESSMEN NASA FME	NT I	D:		-5179	5 -2				ASA DA BASELI N	NE			
SUBSYSTEM MDAC ID: ITEM:	M:		EPD&C 5175 CIRCUI	IT BI	REAKE	R, 5	A THE	RMAL	(MAIN)	В	CON	TR)	
LEAD ANA	LYST	:	K. SCH	IMECI	KPEPE	R							
ASSESSME	NT:												
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REMARKS:												,	

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SUBSYSTE MDAC ID:				EPD&C 5176 DIODE	,]	csc)ITAIC	ОИ	12	2 A							
LEAD ANA	LYS	ST	:	K. SCI	IME	ECI	KPEPE!	Ŕ	11	B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			•			1	
ASSESSME	NT	:															
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RECOMMEN	DA'	ΓI	ons:	·(If	ď	Ĺf	feren	t i	fro	om NA	SA)	-	•				
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REMARKS: NASA HAS IOA CONC CONCERNS	UR																

ASSESSME ASSESSME NASA FME	NT I	D:	EPD	05/8 &C-5 6-21	177							SA DA ASELI N	NE	[x]		
SUBSYSTE MDAC ID: ITEM:	M:		EPD 517 DIO		ISC	OLAT:	ION	12	!A								
LEAD ANA	LYSI	!:	ĸ.	SCHM	ECI	KPEPI	ER										
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REMARKS:	URS	WITH	NAS	A AF	TEI	R FUI	RTHE	ER	EXAM	INZ	ATI	ON OF	TH	E (CIR	CUI'	т.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5178	D&C-5178 BASELINE							
0000101	EPD&C 5178 DIODE, ISOLATION	12A							
LEAD ANALYST:	K. SCHMECKPEPER								
ASSESSMENT:									
CRITICAL: FLIGH		CY SCREENS	CIL ITEM						
HDW/FU		ВС							
NASA [3 /1R IOA [3 /1R] [P] [] [P]	NA] [P] F] [P]	[x] *						
COMPARE [/] [] [и] []	[N]						
RECOMMENDATIONS:	(If different	from NASA)							
[/	,1 [, 1 [] [] (A)	[DD/DELETE)						
* CIL RETENTION	RATIONALE: (If ap	plicable) ADEQUATE INADEQUATE	[]						
REMARKS: NASA HAS ADDED T IOA CONCURS WITH	HE FAILURE MODE " NASA AFTER FURTH	SHORTS TO GROUND" TO	O THIS FMEA						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-517	'9	. 6	NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5179 DIODE, IS	COLATION	12 A		
LEAD ANALYST:	K. SCHMEC	KPEPER		-	
ASSESSMENT:					
CRITICALI FLIGHT HDW/FUN			Y SCREE	ens C	CIL ITEM
NASA [2 /1R IOA [3 /3] [P) [NA]	[P]	[X] *
COMPARE [N /N] [N	1 [n j	[и]	[N]
RECOMMENDATIONS:	(If dif	ferent f	rom NAS	 5 A)	
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* CIL RETENTION F REMARKS: IOA CONCURS WITH	-			ADEQUATE INADEQUATE	[X] [] FING
CONCERNS.					

ASSESSME ASSESSME NASA FME	חבת-	CC_5190 BASELINE []																
SUBSYSTEM MDAC ID:				51		ł,	TC	GGLE	S	PDT	r (MA	\IN	в	JS TIE B)			
LEAD ANA	LYS'	T:		ĸ.	SCI	IMI	ECF	(PEPE	R									
ASSESSMENT:																		
		TIC FLI					RI	EDUND	AN	CY	SCRE	EEN	5		-	IL TEN		
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NASA IOA	[3 / 2 /	1R 1R]]	P P]]	NA P	A]	[P P]	[x]	*
COMPARE	[N /	,]		[]	[N]	[]	[N]	
RECOMMEN	DAT	ION	s:		(If	đ:	ifi	feren	t	fro	om NA	ASA)					
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REMARKS: NASA HAS IN "OFF" IS A STA	RE PO	SIT	'IOI	. I	IO	5] A. (FA]	LURE NCURS	M W	ODI ITI	E AS: H NAS	: F.	AII S I	LS OPEN, REEVALUA	F TI	AII ON	LS As	CLOSED THIS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/05/87 EPD&C-5180A 05-6-2212-2		NASA DATA: BASELINE [] NEW [X]							
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5180 SWITCH, TOGG	LE SPDT (MAIN	BUS TIE B)	· · · · · · · · · · · · · · · · · · ·						
LEAD ANALYST:	K. SCHMECKPE	PER								
ASSESSMENT:										
CRITICAL: FLIGHT HDW/FUI	r	NDANCY SCREEN B	s C	CIL ITEM						
NASA [2 /1R IOA [2 /1R		[NA] [[NA] [P] P]	[X] * [X]						
COMPARE [/] []	[] [1	[]						
RECOMMENDATIONS:	(If differ	ent from NASA)							
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/05/87 EPD&C-51 05-6-221	.81 .2-3		NASA DATA: BASELINE [] NEW [X]					
	5181	TOGGLE	SPDT (MAI	N BUS TIE B)				
LEAD ANALYST:	к. ѕсни	ECKPEPE	2						
ASSESSMENT:									
CRITICAL: FLIGH HDW/FU	r	REDUNDA A	ANCY SCREE B	ns C	CIL ITEM				
NASA [3 /1R IOA [2 /1R] [P] P]	[NA] [P]	[P] [P]	[x] *				
COMPARE [N /] []	[N]	[]	[N]				
RECOMMENDATIONS:	(If di	ifferent	from NAS	A)					
] []	[]	[] (A	[DD/DELETE)				
* CIL RETENTION	RATIONALI	E: (If a		ADEQUATE	[]				
REMARKS: NASA HAS REDEFIN POSITION, SHORTS REEVALUATION.	ED THIS I	FAILURE T TO COI	MODE AS:	FAILS CLOSE	D IN "ON"				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	7/01/87 EPD&C-5182 05-6-2211-1		ASA DATA: BASELINE [] NEW [X]
SUBSYSTEM: MDAC ID: ITEM:	5182	LE SPDT (FC/MN	
LEAD ANALYST:	K. SCHMECKPE	PER	
ASSESSMENT:			
CRITICAL: FLIGHT		NDANCY SCREENS	CIL ITEM
	NC A	в с	
NASA [2 /1R IOA [3 /1R] [P]	[NA] [P [P] [P] [X] *
COMPARE [N /] []	[и]] [n]
RECOMMENDATIONS:	(If differ	ent from NASA)	
[/] []	[] [[] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (I	A	DEQUATE [X] DEQUATE []
REMARKS: NASA HAS REDEFIN "OFF", SHORTS TO NASA'S REEVALUAT	GROUND, FAIL	S CLOSED IN "ON	LS TO TRANSFER TO ". IOA CONCURS WITH CONCERNS.

ASSESSME ASSESSME NASA FME	NТ	ID		EPD&C-	2/05/87 NASA DATA: PD&C-5183 BASELINE [] 5-6-2211-3 NEW [X]												
SUBSYSTEMDAC ID:	M:			EPD&C 5183 SWITCH	Ι,	TC	OGGLE	S	PD'	r (FC,	/MN	BUS	B)				
LEAD ANA	LYS	T:		K. SCH	IME	CI	KPEPE:	R									
ASSESSME	NT:																
		FL	CALI LIGHT					AN	CY B	SCRE		3		_	I L TEN	4	
NASA IOA	[2	/1R /1R]	•										X]	*
COMPARE	[N	/]	[]	[]	[]		[N]	
RECOMMEN	DAT	'IC	NS:	(If	di	f	feren	t	fr	om NA	SA)						
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REMARKS: NASA HAS POSITION THIS FAI		IC	A C	ONCURS	WI	T	H NAS	Α¹	S	REEVA	LUA'						

ASSESSME ASSESSME NASA FME	NT I	D:	EPD&C	-518	4				NASA DATA: BASELINE [] NEW [X]				
	·												
LEAD ANA	LYST	:	K. SC	HMEC	KPEPE	ER							
ASSESSME	NT:												
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM													
	_	W/FU	_	A	,	В		С			IIE	M	
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NASA HAS													

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5184A	I	NASA DATA: BASELINE NEW	
SUBSYSTEM:	EPD&C 5184 SWITCH, TOGGLE	SPDT (PAYLO	AD AFT MN	В)
LEAD ANALYST:	K. SCHMECKPEPE	2		
ASSESSMENT:				
CRITICALI FLIGHT	r	ANCY SCREENS	c	CIL ITEM
HDW/FUN		_		
NASA [2 /1R IOA [2 /1R] [P]	[NA] [] [NA] []	P] P]	[X] * [X]
COMPARE [/] []	[] [1	[]
RECOMMENDATIONS:	(If differen	t from NASA)		
[/] []	[] [] (AI	[] DD/DELETE)
* CIL RETENTION F	RATIONALE: (If a		ADEQUATE ADEQUATE	[X]
REMARKS: NASA HAS ADDED TH COMPONENT. IOA	HE FAILURE MODE	"SHORTS TO SA'S ANALYSI	GROUND" TO	THIS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5185		BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	5185	GLE SPDT (PAYLO	DAD AFT MN	В)
LEAD ANALYST:	K. SCHMECKP	EPER		
ASSESSMENT:				
CRITICALI FLIGHT HDW/FUN	ŗ	UNDANCY SCREENS B	c c	CIL ITEM
NASA [3 /3 IOA [3 /2R] []]	[] [[P]	P]	[] *
COMPARE [/N] [N]	[N]	n j	[]
RECOMMENDATIONS:	(If diffe	rent from NASA))	
[/] []	[,] [] (AD	[] DD/DELETE)
* CIL RETENTION F	RATIONALE: (-	ADEQUATE NADEQUATE	[]
REMARKS: NASA HAS REDEFINE WITH NASA'S REEVA		URE MODE AS: SH	IORTS. IOA	CONCURS

ASSESSMEN ASSESSMEN NASA FME	TV	ID:	6/06/ EPD&6 05-6	C-518					BASELIN NE		[
SUBSYSTEMDAC ID:			EPD&0 5186 RELA) AFI	PAYLO	DAD :	BUS)			
LEAD ANA	LYS!	r:	K. S	CHMEC	KPEF	PER					
ASSESSME	T:								•		
•	-	TICAL FLIGH	ITY	F	REDUN	IDANCY	SCR	EENS		CII	
		DW/FU		A		В		С			
NASA IÕA	[:	3 /2R 3 /2R]	[E	?]	[P]	[P [P]]] *
COMPARE	Ţ.	/]	[]	[]	[]	[]
RECOMMEN	DAT:	ions:	(I	f di	ffere	ent fr	om N	ASA)	,		
	[_/	j	[]	[1	[] ([ADD/1] DELETE
* CIL RE	TEN	TION		NALE:	: (I	f appl	icab	A.	DEQUATE DEQUATE]
REMARKS:									-	-	

ASSESSME ASSESSME NASA FME	ENT I	D:	EPD&	/87 C-518 - 2392	NASA DATA: BASELINE [] NEW [X]									
SUBSYSTE MDAC ID:			EPD& 5187 RELA) AFT	PAYI	LOAD	BUS)						
LEAD ANA	LYSI	: :	ĸ.s	CHMEC	KPEF	ER	-	-						
ASSESSME	NT:													
	F	CICAL LIGH W/FU	\mathbf{T}	F		DANC)			. e		IL TEM			
NASA IOA		/3		[]	[]	[]	[]	*		
COMPARE	[/]	[]	[1	[]	ι]			
RECOMMEN	DATI	ONS:	(I	f dif	fere	nt fr	om N	ASA)						
-	[/]	[]	[]	[]	[ADD] /DEI	ETE)		
* CIL RE	TENT	NOI	RATIO:	NALE:	(If	appl	icab	A	DEQUAT	•]			

ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5188 NASA FMEA #: 05-6-2288-1																ASA BASI	ELI	-	[x]	
SUBSYSTE MDAC ID:	M:			51	D&C 88 SE,	80	DΑ															
LEAD ANA	LYS	T:		ĸ.	SCI	IMI	ECI	KPEI	PER													
ASSESSME	NT:																					
			CALI IGHT				RI	EDUI	NDA	NC	Y	sc	REE	NS	3					CL CEM	4	
	Н	IDW	/FUN	1C			A				В				С							
NASA IOA	[3 3	/2R /2R]		[P P]]	P F]		[P P]			[x]	*
COMPARE	[/]		[]		[N]		[]			[N]	
RECOMMEN	DAT	'IO	NS:		(If	đ.	if	fer	ent	: 1	fro	om	NAS	A))							
	[/	3		[]		[]		[]		(A	DD,	/DI	ELJ	ETE
* CIL RE		ITI	ON I	RAT	'ION	AL	E:	(I :	fa	.pı) 1:	ica	ble			DEQ DEQ			[]	
REMARKS:		S W	ITH	NA	SA'	S	SC	REEI	N "	В	٠.											

ASSESSME ASSESSME NASA FME	NT I	D:	6/06/3 EPD&C- 05-6-3	-5189]	NASA DA' BASELI N		•]		
SUBSYSTE MDAC ID: ITEM:	M:		EPD&C 5189 RESIS	TOR,	5.1	K								
LEAD ANA	LYSI	C:	K. SC	HMECI	KPEP	ER								
ASSESSME	NT:													
		CAL	ITY	R	EDUN	DANCY	SCRE	ENS			CIL [TE]			
	-	W/FU		A		В		(С					
NASA IOA	[3	3 /3 3 /3]	[]]]	[]	[- :] *]		
COMPARE	[/]	[]	[]	[1	ĺ]		
RECOMMEN	DATI	ons:	(If	dif:	fere	nt fr	om NA	SA)		-				
-	[/]	[]	[]	[]	(ADI	D/DI] ELETE)		
* CIL RE	TENI	rion :	RATION.	ALE:	(If	appl	icabl	2	ADEQUAT:		•]		
REMARKS:											•			

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #: SUBSYSTEM: MDAC ID: ITEM:	EPD&C-5190 05-6-2278-1		SA DATA: BASELINE [] NEW [X]
LEAD ANALYST:		יסקס	
	R. SCIMECKFE	FER	
ASSESSMENT:			
CRITICA FLIG		NDANCY SCREENS	CIL ITEM
HDW/F		в с	
NASA [2 /1 IOA [3 /1	R] [P] R] [P]	[F] [P [P] [X] *
COMPARE [N /] []	[] [] []
RECOMMENDATIONS	: (If differ	ent from NASA)	
\ 1] []	[] [,] [] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (1	A	DEQUATE [X] DEQUATE []
REMARKS: IOA CONCURS WIT INFORMATION ABO			AFTER LEARNING MORE

ASSESSMENT ASSESSMENT NASA FMEA	ID:	EPD&C-51		NASA DATA BASELINE NEW		
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5191 FUSE, 35	A		an Tur	
LEAD ANALY	ST:	K. SCHME	CKPEPER =			
ASSESSMENT	•					
CR	ITICALI FLIGHT	TY	REDUNDAN	CY SCREE	ins	CIL ITEM
	HDW/FUN		A	В	C	
NASA [IOA [2 /1R 3 /1R] [P] [P] [F] F]	[P] [P]	[X] * [X]
COMPARE [N /] [] []	[]	[]
RECOMMENDA	TIONS:	(If di	fferent	from NAS	SA)	
	/] [] [.]	[] (A)	[DD/DELETE)
* CIL RETE	NTION F	RATIONALE	: (If ap	plicable	ADEQUATE	[X]
REMARKS: IOA CONCUR INFORMATIO					TO AFTER LE	ARNING MORE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-519		NASA DATA BASELINE NEW		
	EPD&C 5192 FUSE, 10A	TO RMS	PWR & RJ	DA	
LEAD ANALYST:	K. SCHMEC	KPEPER			
ASSESSMENT:					
CRITICAL FLIGH	ITY R	EDUNDANC	Y SCREEN	S	CIL ITEM
HDW/FU		•	В	С	1 1 211
NASA [3 /1R IOA [2 /1R	[P] [-		[] * [X]
COMPARE [N /] [] [и] []	[N]
RECOMMENDATIONS:	(If dif	ferent f	rom NASA)	
] [] [] [.] (A	[] DD/DELETE)
* CIL RETENTION	RATIONALE:	(If app	licable)	ADEQUATE	rı
DEWI DVG	***		I	NADEQUATE	
REMARKS: IOA CONCURS WITH THE CIRCUIT.	NASA'S RE	EVALUATI	ON AFTER	FURTHER A	NALYSIS OI

ASSESSME	NT I	D:										ATA: INE [] NEW [X]						
SUBSYSTE MDAC ID: ITEM: BUSSES 1			EPD&C 5193 FUSE,	52	I A	O F	ŒSI	STO	ORS	то	CON	IT BU	s I	PWR	MI	I E	3,	ESS
LEAD ANA	LYSI	: :	K. SCI	IMI	ECK	PEI	PER											
ASSESSME	NT:																	
	F	'LIGH'	ITY T NC		RE A	(DU	IDAN	CY B	SC	REEI	C 1S				CL CEN	1.		
NASA IOA	[3	/1R /1R]	[P P]	[P F]		[P]		[x]	*	
COMPARE	[/	1	[]	[N]	İ	[]		[N]		
RECOMMEN	DATI	ONS:	(If	d:	iff	ere	ent	fr	тс	NAS	A)							
-	Ţ	/]	[]	[•]		[]	(Z	[ADD,	/DI] ELI	ETE	:)
* CIL RE									ica		ΑI	DEQUA DEQUA		[]		
IOA CONC	URS	WITH	NASA'	5 5	SCF	(EEI	4 "B	•										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5194	NASA DATA: BASELINE [] NEW [X]							
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5194 FUSE, 15A TO	A14 PANEL (RCS/OMS	HTRS)						
LEAD ANALYST:	K. SCHMECKPER	PER	er er er er er er er er er er er er er e						
ASSESSMENT:									
CRITICAI FLIGH		NDANCY SCREENS	CIL ITEM						
HDW/FU	NC A	ВС							
NASA [2 /1R IOA [3 /2R	[P]	[P] [P] [P] [P]	[X] * []						
COMPARE [N /N] []	[] []	[N]						
RECOMMENDATIONS:	(If differe	ent from NASA)							
\ <u>`</u>] []	[] []	[] (ADD/DELETE)						
* CIL RETENTION	RATIONALE: (If	f applicable) ADEQUA INADEQUA							
REMARKS: IOA CONCURS WITH	NASA'S REEVAI	LUATION AFTER FURTHE	R EXAMINATION OF						

ASSESSMENT DATE: 12/07/87 ASSESSMENT ID: EPD&C-5195 NASA FMEA #: 05-6-2278-1														ATA: LINE NEW					
SUBSYSTE MDAC ID:				519	PD&C 195 USE, 35A														
LEAD AND	ALYS	ST	:	ĸ.	SCH	ME	ECF	(PEPE	R										
ASSESSMI	ENT	:															. 1.131		
	CRI		ICAL				RE	DUND	ANG	CY	SCRI	EEN	S			CI	L EM		
	I		W/FUI				A			В	±2-		C		TO SECTION				
NASA IOA	[2	/1R /1R]		[[P P]	[F F]]	P P]		[X X] *]	
COMPARE	[N	/]		[]	[]	[]		[•]	
RECOMME	NDA'	rI	ons:		(If	d:	ifi	feren	t:	fr	om N	ASA	.)						
	Γ		/]		[]	[]	(]	(AI		DE:] LETE)	
* CIL R	ETE	NT	ION :	RAT	IONA	L	Ε:	(If	ap)	pl:	icab		A		ATE ATE] .	
REMARKS IOA CON INFORMA	CUR	s N	WITH ABOU	NA T E	SA'S MERC	S]	REI NC'	EVALU Y FUN	AT CT	10] 10]	N DU	EI	0.	AFTE	R LEA	ARN	IN	G MORE	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-519	6		NASA DATA BASELINE NEW	
	EPD&C 5196 FUSE, 35A	.			
LEAD ANALYST:	K. SCHMEC	KPEPER	t		
ASSESSMENT:					
CRITICAL: FLIGH HDW/FU	r		NCY SCREI	ENS	CIL ITEM
NASA [2 /1R IOA [3 /1R] [P)]	[F]	[P] [P]	[X] *
COMPARE [N /] []	[]	[]	[]
RECOMMENDATIONS:	(If dif	ferent	from NAS	SA)	
] []	[]	[]	[] DD/DELETE)
* CIL RETENTION : REMARKS: IOA CONCURS WITH	NASA'S RE	EVALUA	TION DUE	ADEQUATE INADEQUATE	
INFORMATION ABOU	r emergenc	Y FUNC	CTIONS.		

6/06/87 EPD&C-5197 05-6-2247-1		BASELINE	
EPD&C 5197 CIRCUIT BREAKE	ER, 10A (M	B UTIL PWR	F1/M013Q)
K. SCHMECKPEPI	ER		
ITY REDUNI I NC A	DANCY SCREE	ens C	CIL ITEM
] []	[]		[] *
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(If differen	nt from NAS	SA)	
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RATIONALE: (If	applicable		[]
	EPD&C-5197 05-6-2247-1 EPD&C 5197 CIRCUIT BREAKE K. SCHMECKPEPE TY REDUNIT IC A [] [] [] [] [] [] []	EPD&C-5197 05-6-2247-1 EPD&C 5197 CIRCUIT BREAKER, 10A (MN K. SCHMECKPEPER TY REDUNDANCY SCREEN IC A B [] [] []] [] [] (If different from NAS)] [] []	EPD&C-5197 05-6-2247-1 EPD&C 5197 CIRCUIT BREAKER, 10A (MN B UTIL PWR K. SCHMECKPEPER TY REDUNDANCY SCREENS C A B C [] [] [] [] [] [] [] (If different from NASA)] [] [] [] (ARATIONALE: (If applicable) ADEQUATE

ASSESSMENT ID: EPD&C-5198 BASELINE [] NASA FMEA #: 05-6-2247-1 NEW [X] SUBSYSTEM: EPD&C MDAC ID: 5198 ITEM: CIRCUIT BREAKER, 10A (MN B UTIL PWR F1/M0134 LEAD ANALYST: K. SCHMECKPEPER ASSESSMENT: CRITICALITY REDUNDANCY SCREENS CIL ITEM HDW/FUNC A B C NASA [3 /3] [] [] [] [] * IOA [3 /3] [] [] [] [] * COMPARE [/] [] [] [] [] [] RECOMMENDATIONS: (If different from NASA) [/] [] [] [] [] [] [] * CIL RETENTION RATIONALE: (If applicable) REMARKS:	ASSESSMI	ENT	DA	ATE:	6/0	6/87				I	MASA D		•		
SUBSYSTEM: EPD&C MDAC ID: 5198 ITEM: CIRCUIT BREAKER, 10A (MN B UTIL PWR F1/M013) LEAD ANALYST: K. SCHMECKPEPER ASSESSMENT: CRITICALITY REDUNDANCY SCREENS CIL FLIGHT HDW/FUNC A B C NASA [3 /3] [] [] [] [] * IOA [3 /3] [] [] [] [] * COMPARE [/] [] [] [] [] * RECOMMENDATIONS: (If different from NASA) [/] [] [] [] [] (ADD/DELET * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [] INADEQUATE []):									•]	
ASSESSMENT: CRITICALITY REDUNDANCY SCREENS CIL FLIGHT HDW/FUNC A B C NASA [3 /3] [] [] [] [] * IOA [3 /3] [] [] [] [] * COMPARE [/] [] [] [] [] [] * RECOMMENDATIONS: (If different from NASA) [/] [] [] [] [] [] (ADD/DELET * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [] INADEQUATE []	MDAC ID				519	8	REAF	ŒR, 1	0A (1	MIN B	UTIL	PWR	•		
CRITICALITY REDUNDANCY SCREENS FLIGHT HDW/FUNC A B C NASA [3 /3] [] [] [] [] * IOA [3 /3] [] [] [] [] * COMPARE [/] [] [] [] [] [] * RECOMMENDATIONS: (If different from NASA) [/] [] [] [] [] (ADD/DELET * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [] INADEQUATE []	LEAD AN	ALYS	T	;	ĸ.	SCHMECE	(PEI	PER							
FLIGHT HDW/FUNC A B C NASA [3 /3] [] [] [] [] * IOA [3 /3] [] [] [] [] * COMPARE [/] [] [] [] [] [] * RECOMMENDATIONS: (If different from NASA) [/] [] [] [] [] [] (ADD/DELET* * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [] INADEQUATE []	ASSESSMI	ENT:	:												
HDW/FUNC A B C NASA [3 /3] [] [] [] [] * IOA [3 /3] [] [] [] [] COMPARE [/] [] [] [] [] RECOMMENDATIONS: (If different from NASA) [/] [] [] [] [] (ADD/DELET * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [] INADEQUATE []		CRI				RI	EDUN	IDANCY	SCR	EENS					
COMPARE [/] [] [] [] RECOMMENDATIONS: (If different from NASA) [/] [] [] [] [] (ADD/DELET * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [] INADEQUATE []		. F				A		B	ı	(C **** *				
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ADEQUATE [] INADEQUATE []		. [/]	[]	[]	[1	(A	[DD/I] DELE'	TE)
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	KEMAKKS	•									e puentania		-		

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ASSESSME ASSESSME NASA FME	ENT I	D:	EPD&C	-519			NASA DATA: BASELINE [] NEW [X]								
SUBSYSTE MDAC ID: ITEM:			EPD&C 5199 CIRCU		REAK	ER,	10A	(CONT B	US CA1	, CA2,	CA3)				
LEAD ANA	LYST	:	K. sc	HMEC	KPEP	ER									
ASSESSME	ENT:														
		ICAL: LIGH	ITY T	R	EDUN	DANC	y sc	REENS		CIL					
-			NC	A			В	С							
NASA IOA	[3	/1R /1R]	[P]	[]	F] P]	[P [P]	[X]	*				
COMPARE	[/]	[]	[]	N]	[]	[N]					
RECOMMEN	IDATI	ons:	(If	dif	fere	nt f	rom	NASA)							
_	ĺ	/]	[]	[]	[] (2	[] ADD/DEI	LETE)				
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REMARKS: IOA CONC IS NOT R	URS				EVAL	UATI	A NC								

ASSESSME	SSESSMENT DATE: 6/06/87 SSESSMENT ID: EPD&C-5200 ASA FMEA #: 05-6-2261-2							ľ	IASA BASE		[]
SUBSYSTE MDAC ID:			EPD8 5200 CIRO)	BREAK	ER, 1	.OA (CONT	BUS	CA1,	CA2	c, CA3)
LEAD ANA	LYSI	?:	к. 5	SCHME	KPEP	ER						
ASSESSME	NT:											
	F	TICAL FLIGH OW/FU		F		DANCY					CII	
		•		_	_	_	_	r	1		r	1 *
NASA IOA	[3	3 /3]	[]	[]	Ĺ	j		[j
COMPARE	[/	1	ſ	3	[1	ſ]		[1
RECOMMEN	IDAT]	cons:	(If di	ffere	nt fr	com N	IASA)				
	[/	3	[]	[]	[]	(A	[DD/I] DELETE
* CIL RI		=-	RATI		: (If	app]	Licab		ADEQU ADEQU]]

REMARKS:

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SUBSYSTIMDAC ID:				EPD 520 SWI		roggi	Æ (DC	UTI	L PWI	R MIN	B)					
LEAD AND	ALY	ST	:	K.	SCHME	CKPEP	ER									
ASSESSMI	ENT	:														
		F	ICAI LIGH W/FU	łT	F		DANCY B					CI	L EM	Ī		
NĀSA IOA	[3	/3 /3]	[]	נ נ]]]		[]	*	
COMPARE	[/]	[]	[]	[)		[]		
RECOMMEN	IDAT	ric	ons:	: (If dif	fere	nt fr	om N	ASA)							
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5202 05-6-2225		BASELINE [] NEW [X]					
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5202 SWITCH, TO	OGGLE (DC	UTIL P	WR MN B)				
LEAD ANALYST:	K. SCHMECI	KPEPER						
ASSESSMENT:								
CRITICAL: FLIGH		EDUNDANCY	SCREEN	s	CIL	4		
HDW/FU		В		C		•		
NASA [3 /3 IOA [3 /3] [] [] []	[] *		
COMPARE [/] [] [] []	[]		
RECOMMENDATIONS:	(If dif:	ferent fro	om NASA	()				
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* CIL RETENTION	RATIONALE:	(If appl		ADEQUATE]		
REMARKS:			I	NADEQUATE	Ĭ	J		

ASSESSME ASSESSME NASA FME	ΝŤ	I		EPD	6/87 &C-520: 6-2225				N		DATA ELINE NEW		[]	
SUBSYSTE MDAC ID: ITEM:	M:			EPD 520 SWI		OGGI	Æ (DC	UTI	L PWF	e, min	В)			
LEAD ANA	LYS	ST	:	K. :	SCHMEC	KPEI	PER							
ASSESSME	NT:	:												
		F	ICAL LIGH W/FU	-	RI A	EDUN	IDANCY B	SCR	REENS	•		CII		
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NASA IOA	[3	/3]	[]	[]	[]		[[]	×
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			/]	[]	ι]	[]	(A	[.DD/[] DELE	TE)
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REMARKS:												L	ı	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/06/87 EPD&C-5204 05-6-2225-			NASA DAT BASELIN NE	E []	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5204 SWITCH, TO	OGGLE (I	OC UTIL	PWR MN B)		
LEAD ANALYST:	K. SCHMECI	KPEPER				
ASSESSMENT:						
CRITICAL: FLIGH		EDUNDANG	CY SCREE	ns	CIL ITEM	
HDW/FU			В	C	IIEM	
NASA [3 /3 IOA [3 /3] [] []	[]	[]	*
COMPARE [/] [] []	[]	[]	
RECOMMENDATIONS:	(If dif:	ferent :	from NAS	Ā)		
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* CIL RETENTION	RATIONALE:	(If app	plicable	ADEQUATE	•	
REMARKS:				Timbegonia	. ,	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/08/87 EPD&C-5205 05-6-2707-1	NASA DATA: BASELINE [] NEW [X]								
	EPD&C 5205 RESISTOR, 1.2K 2W (TO FPCA	-2)								
LEAD ANALYST:	K. SCHMECKPEPER									
ASSESSMENT:										
CRITICAL: FLIGHT HDW/FUI	T	CIL ITEM								
·										
NASA [2 /1R IOA [2 /1R] [P] [P] [] [F] [P] [X] * P] [X]								
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* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE []										
REMARKS: THE "B" SCREEN P. OPERATIONAL STAT	ASSES BECAUSE THE GROUND CAUS MEASUREMENTS.	N MONITER THE MCA								

ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #:		205A			ATA: INE (NEW []	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5205 RESISTO	R, 1.2K	2W (TO)	FPCA-2)		
LEAD ANALYST:	K. SCHM	ECKPEPE	R			
ASSESSMENT:						
	CALITY CGHT	REDUND	ANCY SCR	EENS	CI IT	
		A	В	С		
NASA [3 /	'3] ['3] []	[]	[j []	. [] *]
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	'] []	[]	[]	[(ADD/] DELETE)
* CIL RETENTIO	ON RATIONAL	E: (If	applicab	ADEQUA]
REMARKS:				INADEQUA	TE []

ASSESSMI NASA FMI	ent i	D:	12/07/ EPD&C- 05-6-2	-520					ASA DA BASELI N	INE	-] K]	
SUBSYSTI MDAC ID: ITEM:			EPD&C 5206 SWITCH	I, T	OGGLE	SPS	r (MC)	A LO	GIC MN	I B	FWI) 2)	
LEAD AND	ALYST	:	K. SCI	IMECI	KPEPEI	R							
ASSESSMI	ENT:												
	F	ICAL: LIGH W/FU		RI A	EDUND	ANCY B	SCREI	ENS C			CII	_	
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SUBSYSTE MDAC ID:				EPD 520 SWI		OGGI	Æ SPS	т (М	CA LO	GIC	MN B	FWI	2)	
LEAD ANA	LYS	ST:	:	K. :	SCHMECI	KPEP	ER							
ASSESSME	ENT:	:										- 7: -		
		F	LIGH			EDUN	IDANCY -					CII		
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ASSESSME ASSESSME NASA FME	NT I						NASA DATA: BASELINE [] NEW [X]						
SUBSYSTEM MDAC ID:	M:		EPD&C 5208 FUSE,	150	A TO	FPCA	-2						
LEAD ANA	LYSI	?:	K. SCH	IMEC:	KPEPI	ER							
ASSESSME	NT:												
(F	CICALI CLIGHT W/FUN	ľ	RI A		DANCY B	SCREI	ENS	c	CI I'I	L EM	I	
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REMARKS:													

ASSESSME ASSESSME NASA FME	NT ID:	6/04/87 EPD&C-52 05-6-200			NASA DAT BASELIN NE	
SUBSYSTE MDAC ID:		EPD&C 5209 FUSE, 15	OA TO	FPCA-2		was to a second
LEAD ANA	LYST:	K. SCHME	CKPEPI	ER		
ASSESSME	NT:					
	CRITICAL FLIGH HDW/FU	T	REDUNI A	DANCY SCRE	EENS C	CIL ITEM
NASA IOA	[3 /1R [3 /1R	[[P] P]	[F] [F]	[P] [P]	[X] * [X]
COMPARE	[/] []	[]	[]	[]
RECOMMEN	DATIONS:	(If di	ffere	nt from NA	ASA)	
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* CIL RE	TENTION	RATIONALE	: (If	applicabl	Le) ADEQUATE INADEQUATE	•

REMARKS:

	ASSESSME	SSESSMENT ID: E				704/87 PD&C-5210 5-6-2006-1				NASA DATA: BASELINE [] NEW [X]			
	SUBSYSTE MDAC ID: ITEM:			EPD&C 5210 FUSE,		A TO	FPCA-	-2			1977 was		
	LEAD ANA	LYS	r:	K. SC	HMEC	KPEP	ER -			-			
	ASSESSME	NT:											
			rical]		R	EDUN	DANCY	SCR	EENS		CIL ITEM	,	
		_	FLIGHT OW/FUN		A		В		(c fa j	1150	1	
	NASA IOA		3 /1R 3 /1R]	[P]	[F [F]	[]	P] P]	[X [X] *	
	COMPARE	[/]	[]	[]	[]]]	
	RECOMMEN	DAT:	cons:	(If	dif	fere	nt fr	om N	ASA)				
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&a3528H]	* CIL RE INADEQUAT REMARKS:	Έ	rion i	RATION	ALE:	(If	appl	icab	le)	ADEQUA	TE [X]	

ASSESSME	ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5211 NASA FMEA #: 05-6-2354-1							NASA DATA: BASELINE [] NEW [X]								
SUBSYSTE MDAC ID:	м:		EPD& 5211 RESI		5.1	K 1/4	W (T	O GSE	MON	ITOR)					
LEAD ANA	LYS	T:	K. S	CHMEC	KPEP	ER			-							
ASSESSME	NT:															
		TICAL FLIGH		R	EDUN	IDANCY	SCR	EENS			CII					
		DW/FU		A		E	3	C	2							
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ASSESSME ASSESSME NASA FME	NT :	ID:	6/06/ EPD&C 05-6-	-521				1	NASA DAT BASELIN NI		
SUBSYSTE MDAC ID: ITEM:	M:		EPD&C 5212 RPC,		FMCA	-2 PI	VR CO	NT)			
LEAD ANA	LYS'	r:	K. SC	HMEC	KPEP	ER					
ASSESSME	NT:										i Benjaran
•	1	rical Fligh	T				SCR		_	CII ITI	
	HI	DW/FU	NC	A		1	3	(
NASA IOA	[:	3 /3 3 /3]	[[]]]	[[]] [] *]
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* CIL RE	TENT	rion 1	RATION	ALE:	(If	app]	licab	P	ADEQUATE ADEQUATE]
REMARKS:											

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/17/87 EPD&C-5213 05-6-2807-1	NASA DATA BASELINI NEV								
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5213 RPC, 5A (FMC)	A-2 PWR CONT)								
LEAD ANALYST:	K. SCHMECKPE	PER								
ASSESSMENT:										
CRITICAL FLIGH HDW/FU	T	ndancy screens	CIL ITEM							
·		_								
NASA [2 /1R IOA [2 /1R		[P] [P] [F] [P]	[X] * [X]							
COMPARE [/] []	[и] [и]	[]							
RECOMMENDATIONS:	(If differ	ent from NASA)								
[/] []	[] []	[] ADD/DELETE)							
* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE []										
	IOA CONCURS WITH NASA'S SCREEN "B". GROUND CAN DETERMINE STATE OF RPC VIA OPERATIONAL STATUS MEASUREMENTS.									

ASSESSME ASSESSME NASA FME	NT I	D:	6/04/8 EPD&C- 05-6-3	-521					ASA DA BÁSELI N	NE		
SUBSYSTE MDAC ID:	M:		EPD&C 5214 FUSE,	150	а то	MAIN	DC D		ASSY 2		#·	
LEAD ANA	LYSI	?:	K. SC	HMEC	KPEP	ER						
ASSESSME	NT:											
	F	LIGHT	ľ				SCRE	ENS C			CIL	
	HL	W/FUI	NC	A	•	В	•	C				
NASA IOA	[3	/1R /1R]	[P]	[F]	[P]		[X] *
COMPARE	[/]	[]	[]	[]		[]
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* CIL RE	TENI	TION I	RATION	ALE:	(If	appl	icabl	A	DEQUAT DEQUAT	E	[X]
REMARKS:										-	•	• •

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-521		NASA DATA BASELINI NEV	
	EPD&C 5215 FUSE, 150	A TO MAIN	DC DIST ASSY 2	
LEAD ANALYST:	K. SCHMEC	KPEPER		
ASSESSMENT:				
CRITICAL FLIGH		EDUNDANCY	SCREENS	CIL ITEM
HDW/FU	NC A	В	С	
NASA [3 /1R IOA [3 /1R	[P] [F] [F] [P]] [P]	[X] * [X]
COMPARE [/) [1 [] []	[]
RECOMMENDATIONS:	(If dif	ferent fro	om NASA)	
[/] [] [] [] (2	[] ADD/DELETE)
* CIL RETENTION	RATIONALE:	(If appli	ADEQUATE	
REMARKS:			INADEQUATE	l J

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/04/87 EPD&C-5210 05-6-2006			DATA: LINE [] NEW [X]
	EPD&C 5216 FUSE, 150	A TO MAIN	DC DIST ASSY	2
LEAD ANALYST:	K. SCHMEC	KPEPER		
ASSESSMENT:				
CRITICALI FLIGHT HDW/FUR	r	EDUNDANCY B	SCREENS C	CIL ITEM
NASA [3 /1R IOA [3 /1R] [P] [F] [F] [P]] [P]	[X] * [X]
COMPARE [/] [] [] []	[]
RECOMMENDATIONS:	(If dif	ferent fro	om NASA)	
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* CIL RETENTION I	RATIONALE:	(If appli	icable) ADEQU INADEQU	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5217		BASELINE NEW	
MDAC ID:	EPD&C 5217 FUSE, 35A TO	FLCA-2		
LEAD ANALYST:	K. SCHMECKPEI	PER		
ASSESSMENT:	,			
CRITICAL FLIGH		NDANCY SCREE	ens	CIL ITEM
HDW/FU		В	С	
NASA [1 /1 IOA [3 /1R] [p]	[] [F]	[] [P]	[X] * [X]
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* CIL RETENTION	RATIONALE: (I	f applicable	e) ADEQUATE INADEQUATE	•
REMARKS: IOA AGREES WITH UNAWARE OF THE S	NASA'S EVALUA' INGLE STRING	TION BECAUS: FIRE SUPPRE	E THE IOA AN SSION SYSTEM	ALYST WAS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/19/87 EPD&C-5218 NOT FOUND	3		NASA DATA: BASELINE NEW	[]		
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5218 RESISTOR,	5.1K						
LEAD ANALYST:	K. SCHMECI	KPEPER						
ASSESSMENT:					ه په در	langugug		
CRITICAL: FLIGHT		EDUNDANCY	SCREENS	3	CIL ITEM			
HDW/FUI			3	C	TIEM			
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COMPARE [N /N] [] [] []	[]		
RECOMMENDATIONS:	(If dif	ferent fr	om NASA)					
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* CIL RETENTION I	RATIONALE:	(If appl	icable)	100011	<u>.</u> .			
A Substantin	· · ·		IN	ADEQUATE IADEQUATE]		
REMARKS: THIS COMPONENT HAS NO CONNECTION TO FLIGHT HARDWARE OR IS A TEST POINT. THEREFORE NASA DID NOT INCLUDE IT IN THEIR FMEAS. IOA CONCURS.								

ASSESSME ASSESSME NASA FME	NT ID:	6/06/8 EPD&C- 05-6-2		NASA DATA: BASELINE [] NEW [X]]			
SUBSYSTE MDAC ID:	M:	EPD&C 5219 RESIST	or,	1.8K	1/40	OT) V	sig	COND	OF2	2)		
LEAD ANA	LYST:	K. SCH	MECK	PEPEF	ર							
ASSESSME	NT:											
	CRITICAL FLIGH		RE	DUNDA	NCA	SCREI	ens			CIL		
	HDW/FU		A		В		С					
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COMPARE	[/]	[]	[]	ĺ]		[]	
RECOMMEN	DATIONS:	(If	diff	erent	t fro	om NAS	SA)					
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ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	EPD&C-52	12/08/87 NASA DATA: EPD&C-5220 BASELINE [] 05-6-2705-1 NEW [X]								
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5220 RESISTOR	, 1.2K	2W (TO MP	CA-2)						
LEAD ANALYST:	K. SCHME	CKPEPER								
ASSESSMENT:										
CRITICA FLIG		REDUNDA	NCY SCREE	ns	CIL ITEM					
HDW/E		A	В	C						
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RECOMMENDATIONS	: (If di	fferent	from NAS	A)						
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REMARKS: THE "B" SCREEN OPERATIONAL STA MOTOR OPERATION	TUS MEASUR	AUSE TH EMENTS	E GROUND AND THE C	CAN MONITER REW CAN MONI	THE MCA					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-522					ELINE NEW]
	EPD&C 5220 RESISTOR,	1.2K	2W (TO MP	CA-2)			
LEAD ANALYST:	K. SCHMEC	KPEPEI	₹					
ASSESSMENT:								
CRITICAL		EDUNDA	ANCY	SCREE	ns		CIL	vr
FLIGH HDW/FU			В		С		11111	
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RECOMMENDATIONS:	(If dif	feren	t fro	om NAS	A)			
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ASSESSMENT ASSESSMENT NASA FMEA #	ID:		-52	21						DATA ELINE NEW		
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5221 SWITCH	Ι,	TOGO	GLE S	PS!	r (MC.	A I	.OGIC	MN B	MID	1)
LEAD ANALYS	T:	K. SCH	ME	CKPI	EPER							
ASSESSMENT:												
	FLIGH	ITY I NC		REDU A	JNDAN	CY B	SCRE	ENS		6411.J	CIL	
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COMPARE [/]	[]	Ţ	N]	[]		[]
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ASSESSME ASSESSME NASA FME	NT I	D:	EPD8	07/87 6C-5222 6-2655-				N	IASA BASE	DATA LINE NEW	[]
SUBSYSTE MDAC ID: ITEM:	M:		EPD8 5222 SWIT		OGGL	E SPST	r (Mo	CA LO	GIC	MN B	MID	1)
LEAD ANA	LYST	:	к. s	CHMECI	KPEP	ER						
ASSESSME	NT:											
	_	ICAL LIGH W/FU	T	RI A	EDUN	DANCY B		EENS	2		CIL	
NASA IOA	[3	/3 /3]	[[]	[[]	[]		[] *
COMPARE	[/]	[]	[]	[]		[]
RECOMMEN	DATI	ons:	()	f dif:	fere	ent fro	om NZ	ASA)				
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		1	NASA DATA: BASELINE NEW	
	EPD&C 5223 RESISTOR, 1.2K	2W (TO MPCA	-2)	
LEAD ANALYST:	K. SCHMECKPEPER	1		
ASSESSMENT:				
CRITICALI FLIGHT	r	NCY SCREENS		CIL ITEM
HDW/FU	NC A	В	C 2	
NASA [2 /1R IOA [2 /1R] [P]] [P]	[P] []	P] P]	[X] *
COMPARE [/] []	[и]]	[]
RECOMMENDATIONS:	(If different	from NASA)		
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SUBSYSTE MDAC ID:	M:		EPD& 5223 RESI		1.2	K 2W	(TO	MPCA-	2)						
LEAD ANA	LYSI	:	K. S	CHMEC	KPEF	PER									
ASSESSME	ASSESSMENT:														
	CRITICALITY REDUNDANCY SCREENS CII FLIGHT ITE HDW/FUNC A B C														
			c	•											
NASA IOA	[3 [3	/3]	[]	[[[]		[] *]				
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/08/87 EPD&C-5224 05-6-2653-1		ASA DATA: BASELINE NEW	[x]										
	EPD&C 5224 SWITCH, TOGGLE	SPST (MCA LO	GIC MN B	MID 2)										
LEAD ANALYST:	K. SCHMECKPEPE	R "												
ASSESSMENT:				at 1.										
CRITICALITY REDUNDANCY SCREENS C FLIGHT I HDW/FUNC A B C														
HDW/FU	NC A	ВС	-											
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RECOMMENDATIONS:	(If differen	t from NASA)												
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REMARKS: THE "B" SCREEN PA OPERATIONAL STATE MOTOR OPERATION '	US MEASUREMENTS													

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SUBSYSTEMDAC ID:	M:			52		Ι,	TC	GGLE	SI	PSI	MC (MC	A :	LOC	GIC	MN	В	MI	D	2)	
LEAD ANA	LYS	T:		ĸ.	SCH	IMI	ECI	(PEPE	R											
ASSESSME	NT:																			
		TIC FLI					RI	EDUND	ANG	CY	SCRE	EN:	S	_			CI	L EM	1	
•	H	DW/	FUN	IC			A			В			С							
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COMPARE	[/	'N]		[N]	[N]	[N]			[N]	
RECOMMEN	DAT	ION	is:		(If	d:	ifi	feren	t :	fro	om NA	SA)							
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SUBSYS MDAC I ITEM:		:		52		OF	٤,	1.2K	2	W	(TO M	PC	4 -2	?)				
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FLIGHT																		
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COMPAR	RE	[/]		[]	[N]	[]	[]	
RECOMM	IEND	ATI	ons:		(If	di	ff	eren	t	fr	om NA	SA))					
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ASSESSME ASSESSME NASA FME	NT ID		12/08/ EPD&C- 05-6-2	-522					ASA DASEL	INE		
SUBSYSTE MDAC ID:	M:		EPD&C 5226 RESIST	ror,	1.2K	2W	(TO M	PCA-	2)			
LEAD ANA	LYST:		K. SCH	imeci	KPEPE	R						
ASSESSME	NT:											
	CRITI	CALI IGHT		RI	EDUND	ANCY	SCRE	ENS			CIL	
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SUBSYSTE MDAC ID:	M:		EPD&C 5227 SWITC		OGGLE	SPS	T (MC	A LC	GIC	MN B	MID	3)
LEAD ANA	LYST	:	K. SC	HMEC	KPEPE	R						
ASSESSME	NT:											
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-522	9		NASA DATA BASELINE NEW	
MDAC ID:	EPD&C 5229 RESISTOR,	1.2K	2W (TO MP	CA-2)	e e
LEAD ANALYST:	K. SCHMEC	KPEPER			
ASSESSMENT:					
CRITICAL: FLIGHT	ITY R	EDUNDA	NCY SCREE	ns	CIL ITEM
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LEAD ANA	LYST:]	K. SCHM	ECKPE	PER					
ASSESSME	NT:									
	CRITI		TY	REDU	NDANCY	SCRE	ENS		CII	
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LEAD ANA	LYST	:	K. SC	HME	CKP	EPER											
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SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5235 RPC, 5A (TO MMC	A-1)		- · - · - ·
LEAD ANALYST:	K. SCHMECKPEPER			
ASSESSMENT:		-		
CRITICAL FLIGH HDW/FU	T	NCY SCREENS	c	CIL ITEM
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SUBSYSTEM MDAC ID:	M:		EPD8 5236 RPC,	5	(T	O MMCA	-2)		-					
LEAD ANA	Lyst	:	к. s	CHME	CK	PEPER									
ASSESSME	NT:											·	144-	. Jurte	. :_
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LEAD ANA	LYST	:	K. S	CHME	CKP	EPE	₹								
ASSESSME	NT:														
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LEAD ANA	LYSī	?:	K. SCI	IME (CKPEP:	ER							
ASSESSME	T:												
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SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5240 RPC, 5A	(TO MMC		पित्र हात्र है। -	jeto song
LEAD ANALYST:	K. SCHM	ECKPEPER	ł		
ASSESSMENT:					
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REMARKS: IOA CONCURS WIT	rh nasa - :	IOA UNAW	VARE OF "	PSYCHOTIC GP	C" PROBLEM.

ASSESSMENT DATE:								DATA:				
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LEAD ANALYST:	K. SCHM	ECK	PEPER									
ASSESSMENT:												
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LEAD ANALYST:		K. SCH	IME (CKP	EPEF	ł										
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SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5243 FUSE, 50A	то н2/02	HTR CONT	T ASSY #3	
LEAD ANALYST:	K. SCHMEC	KPEPER			
ASSESSMENT:					
CRITICAL FLIGH HDW/FU	T	EDUNDANCY B			CIL ITEM
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	EPD&C 5245 FUSE, 150	A TO APCA	-2			
LEAD ANALYST:	K. SCHMEC	KPEPER				
ASSESSMENT:					2	
CRITICAL FLIGH		EDUNDANCY	SCREENS		CIL	
HDW/FU		В	c	!	TIE	M
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	LEAD ANA	LYST	:	к. s	CHME	ECI	KPEI	PER										-
	ASSESSME	ENT:																
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SUBSYSTE MDAC ID:	M:		EPD&0 5247 RESIS		1.8	K 1/4	T) W	o sid	COND	OA2)	 -	
LEAD ANA	LYST	:	K. S	CHMEC	KPEP	ER						
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REMARKS:										-	-	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5248	N	BASELINE [] NEW [X]
	EPD&C 5248 RESISTOR, 1.2F	C 2W (TO APCA-	5)
LEAD ANALYST:	K. SCHMECKPEPE	CR : #	
ASSESSMENT:			
CRITICAL FLIGH		ANCY SCREENS	CIL ITEM
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LEAD ANA	ALYSI	r:	к. я	SCHME	CKPEF	ER							
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:						A DATA SELINE NEW		
	EPD&C 5254 RESISTOR,	1.2K	2W (TO P/	'L AUX	BUS -	MPC	A-2)
LEAD ANALYST:	K. SCHMEC	KPEPE	R					
ASSESSMENT:								
CRITICAL FLIGH		EDUND	ANCY	SCREE	ens		CIL	
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SUBSYSTEM MDAC ID: ITEM:	M:		EPD&C 5255 RESIST	ror,	1.2K	2W	(TO P		CABIN	BUS	- ;	MPCA-2	<u>.</u>
LEAD ANA	LYST	:	K. SCI	MECH	KPEPEI	ર							
ASSESSME	NT:											n nn - 21 n	
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SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5257 SWITCH	, то	GGLE	DPDT	(PAY	'LOA	D AUX)		
LEAD ANALYS	ST:	K. SCH	MECK	PEPER						
ASSESSMENT	:									
CR	ITICALI FLIGHT		RE	DUNDA	NCY	SCREE	NS		CIL	
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* CIL RETE	NTION F	RATIONA	LE:	(If a	ppli	cable	A	DEQUATE DEQUATE]
REMARKS: NASA HAS A CONCURS WI						RTS"	TO	THIS FMI	EA.	IOA

ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5258 NASA FMEA #: 05-6-2234-1 NEW [X]
SUBSYSTEM: EPD&C MDAC ID: 5258 ITEM: SWITCH, TOGGLE DPDT (PAYLOAD AUX)
LEAD ANALYST: K. SCHMECKPEPER
ASSESSMENT:
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C
NASA [2/2] [] [] [X]* IOA [3/2R] [P] [P] [P]
COMPARE [N/N] [N] [N] [N]
RECOMMENDATIONS: (If different from NASA)
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* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE []
REMARKS: NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/06/87 EPD&C-5259 05-6-2233-2	NASA DATA BASELINE NEW	
	EPD&C 5259 SWITCH, TOGGLE SP	DT (PAYLOAD CABIN)	VMV to the
LEAD ANALYST:	K. SCHMECKPEPER		
ASSESSMENT:			
CRITICAL FLIGH	T		CIL ITEM
HDW/FU	NC A	B C	
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	HE FAILURE MODE "SIA'S REEVALUATION.	HORTS" TO THIS FME	A. IOA

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	D: EPD&C-5260 BASELINE [] 05-6-2233-1 NEW [X]									
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5260 SWITCH, T	roggle si	PDT (PAYLO	AD CABIN)						
LEAD ANALYST:	K. SCHME	CKPEPER								
ASSESSMENT:										
CRITICAL: FLIGH		REDUNDANG	CY SCREENS	}	CIL ITEM					
HDW/FU		A	В	С						
NASA [2 /2 IOA [3 /2R] [1	P] [p] [P]	[X] * []					
COMPARE [N /N] [1	N] [и] [N]	[N]					
RECOMMENDATIONS:	(If di	fferent 1	from NASA)							
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REMARKS: NASA HAS ADDED T IOA CONCURS WITH				GROUND" TO	THIS FMEA.					

ASSESSME ASSESSME NASA FME	NT :	ID:	EPD&C	-526					ASA DA BASELI N	NE]	
SUBSYSTE MDAC ID: ITEM:		*	EPD&C 5261 RESIST	ror,	5.1K	1/4	W (TO	MDM	OF4)				
LEAD ANA	LYS	r:	K. SCI	IMECI	KPEPE	R							
ASSESSME	NT:										:··· -		
		FICAL	ITY F	RI	EDUND	ANCY	SCRE				ITE		
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ASSESSME ASSESSME NASA FME		6/06/87 EPD&C-5: 05-6-23:				ì	NASA DA BASELI N		x]	
SUBSYSTE MDAC ID: ITEM:		EPD&C 5262 RESISTO	R, 5.1	K 1/4	W (T	MDM C	f OF4)			
LEAD ANA	LYST:	K. SCHM	ECKPEP:	ER						
ASSESSME	NT:									
	CRITICAL FLIGH		REDUN	DANCY	SCRI	EENS			IL TEM	
	HDW/FU		A	E	3	C	3	1	LEM	
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COMPARE	[/]		[]		[]	[]		[]	
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REMARKS.																	-	

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SUBSYSTEMDAC ID:			EPD&0 5265 RPC,		ro P	/L AU	X & :	P/L F	MERGEN	ICY	BUS	SES
LEAD AND	ALYS	T:	K. S	CHMEC	KPEP	ER						
ASSESSMI	ENT:											
	CRI	TICAL F <u>LI</u> GH		RI	EDUN	DANCY	SCR		n e seve e		CII	
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SUBSYSTE MDAC ID:		EPD&C 5266 RPC, 1	15A 7	ro Pi	AYLOA	D CAB	IN	-		
LEAD ANA	LYST:	K. SCH	HMECH	KPEPI	ER					
ASSESSME	NT:									
	CRITICAL		RE	EDUNI	DANCY	SCRE	ens		CI	
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LEAD ANA	LYST	:	K. SCI	HMEC	KPEP	ER					- v	٠	
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	CRITICALITY REDUNDANCY SCREENS CIL ITEM												
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/06/87 EPD&C-526 05-6-2395				N	ASA DATA BASELINE NEW		
	EPD&C 5268 RPC, 15A	TO PA	YLOAI	CAB:	IN			
LEAD ANALYST:	K. SCHMEC	KPEPE	R					
ASSESSMENT:								
CRITICAL: FLIGH		EDUND	ANCY	SCREI	ens		CII	
HDW/FU			В		c		IIE	.PI
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COMPARE [/] [1	ſ]	[]	[]
RECOMMENDATIONS:	(If dif	feren	t fro	m NAS	SA)			
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SUBSYSTEM MDAC ID:	1:		EPD&C 5269 RPC,	15A 1	CO PA	YLOAI		EN		7	
LEAD ANAI	LYSI	::	K. SC	HMECI	KPEPE	R				. z	
ASSESSMEN	T:										
(TICAL:	ITY F	RI	EDUND	ANCY	SCRE	ens		CIL	
		W/FU		A		В		(C .		
NASA IOA	[3	3 /2R 3 /2R]	[P [P]	[N [P	A]]	[]	P] P]	[] *]
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RECOMMEN	OAT]	cons:	(If	dif	feren	t fr	om NA	SA)			
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ASSESSME	ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:				70 5 - 2	NASA DATA: BASELINE [] NEW [X]						
SUBSYSTE MDAC ID: ITEM:	M:		EPD& 5270 RPC,		то Р	AYLOA	D CA	BIN				
LEAD ANA	LYST	;	K. S	CHME	CKPEP	ER						
ASSESSME	NT:											
	CRITI	CAL LIGH		F	REDUN	DANCY	SCR	EENS		CII	_	
		v/FU	_	7	A	E	3	(2			
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COMPARE	[/	1	[3	(<u> </u>	[]	[]	
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SUBSYSTE MDAC ID: ITEM:				527	71	L52	A. 5	ro i	PAY	LC	AI) C2	ABIN				
LEAD ANA	LYS	T:	:	ĸ.	SCI	IM:	ECI	KPEI	PER								
ASSESSME	NT:																
	CRI		CAL:				RI	EDUN	NDA	NC	Y	SCI	REEN	s		CI	
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COMPARE	[/]		[]		[N]	[]	[]
RECOMMEN	DAT	'IC	ns:	((If	d:	ifi	fere	ent	f	rc	m l	NASA) -	-		
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IOA CONC	UKS	i W	HTT	NAS	3 ' A	, ;	s C I	くヒヒハ	V ''.	"ש	•						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/06/87 EPD&C-5272 05-6-2322-1		NASA DATA: BASELINE [] NEW [X]					
	EPD&C 5272 RESISTOR, 1.	.8K (TO MDM (OF1)					
LEAD ANALYST:	K. SCHMECKPE	EPER						
ASSESSMENT:								
CRITICALI FLIGHT	*	JNDANCY SCRE	ENS	CIL ITEM				
HDW/FUN		В	С					
NASA [3 /3 IOA [3 /3] []	[]	[]	[] *				
COMPARE [/] []	[]	[]	[]				
RECOMMENDATIONS:	(If differ	rent from NA	SA)					
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* CIL RETENTION I	RATIONALE: (If applicabl	ADEQUATE	נ ז				
REMARKS:			INADEQUATE	[]				

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SUBSYSTEMDAC ID:	M:		EPD&C 5273 RESIS	ror,	2.21	(TO	MDM	OF1))				
LEAD ANA	LYST	:	K. SCI	HMEC	KPEPE	ER							
ASSESSME	NT:												
•		ICAL		R	EDUNI	DANCY	SCRE	ENS			CIL		
		W/FU		A		В		(••		
NASA IOA	[3	/3 /3]] []	[[]	[]		[]	*
COMPARE	[/]	[]	[]	[]		[]	
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REMARKS:										_		J	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5274	PD&C-5274 BASELINE [5-6-2205-1 NEW [X									
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5274 DIODE, ISC	OLATION 35A (TO	PAYLOAD CA	BIN)							
LEAD ANALYST:	K. SCHMECE	KPEPER									
ASSESSMENT:											
CRITICALITY REDUNDANCY SCREENS CIL ITEM											
HDW/F		В	С								
NASA [3 /2] IOA [3 /2]	R] [P R] [P] [NA]] [F]	[P] [P]	[x] *							
COMPARE [/] [] [N]	[]	[N]							
RECOMMENDATIONS	(If dif	ferent from NAS	SA)								
[/] [] []	[] (A	[.DD/DELETE)							
* CIL RETENTION	RATIONALE:	(If applicable	e) ADEQUATE INADEQUATE	[]							
REMARKS: IOA CONCURS WIT	MARKS: DA CONCURS WITH NASA'S SCREEN "B".										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5275		DATA: ELINE [] NEW [X]
	EPD&C 5275 DIODE, ISOLATI	CON 35A (TO PAYLO	AD CABIN)
LEAD ANALYST:	K. SCHMECKPEPE	ER	
ASSESSMENT:			
FLIGHT	TTY REDUNI	DANCY SCREENS B C	CIL ITEM
NASA [3 /3 IOA [3 /2R] [p]	[] [] [F]	[x] *
COMPARE [/N] [N]	[N] [N]	[N]
RECOMMENDATIONS:	(If differer	nt from NASA)	
] []		[] (ADD/DELETE)
* CIL RETENTION F	RATIONALE: (If	ADEQ	UATE [] UATE []
REMARKS: IOA CONCURS WITH THE CIRCUIT.	NASA'S REEVALU	JATION AFTER FURT	HER ANALYSIS OF

EPD&C-5276		NASA DATA: BASELINE [] NEW [X]						
5276	LATION 35A (TO	PAYLOAD CAI	BIN)					
K. SCHMECK	PEPER							
IT	DUNDANCY SCREENS B	s c	CIL ITEM					
[P] [] [] [F] [p]	[x] *					
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ti n silik	I							
	EPD&C 5276 DIODE, ISO K. SCHMECK LITY REI IT INC A [P] [N : (If difference of the content of the cont	EPD&C-5276 05-6-2205-2 EPD&C 5276 DIODE, ISOLATION 35A (TO) K. SCHMECKPEPER LITY REDUNDANCY SCREENS HT JNC A B [EPD&C-5276 05-6-2205-2 EPD&C 5276 DIODE, ISOLATION 35A (TO PAYLOAD CAR K. SCHMECKPEPER LITY REDUNDANCY SCREENS HT JNC A B C R] [] [] [] [P] R] [N] [N] [N] : (If different from NASA)] [] [] [] (AI RATIONALE: (If applicable)					

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:		-5277				ASA DATA BASELINE NEW	[
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5277 DIODE		ATION :	35 A (TO PA	ZLOAD CA	BIN	1)		
LEAD ANALYST:	K. SC	HMECKP	EPER							
ASSESSMENT:										
CRITICA FLIC	SHT		UNDANC					L CEM	ſ	
HDW/	FUNC	A	1	В	С					
NASA [3 /: IOA [3 /:	2R] 2R]	[P] [P]	[]	NA] F]	[P [P]]	x]	*
COMPARE [/]	[]	[]	и]	[]	[N]	
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* CIL RETENTION	n RATION	ALE: (If app	licab	A	DEQUATE DEQUATE]	
REMARKS: IOA CONCURS WI	TH NASA'	s scre	EN "B"	•						

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SUBSYSTE MDAC ID:				52	PD&C 278 CODE,	,]	ISC	OLAT	ION	35	5 A	(TO	PA:	YLOA	D CA	BII	4)		
LEAD ANA	LYS	ST	:	ĸ.	SCI	IMI	ECI	KPEP	ER										
ASSESSME	NT:	:																	
	CR:		ICAL LIGH		Z.		R	EDUN	DAN	CY	sc	REEN	IS				IL PEN	1	
	1	IDI	/FU	NC			A			В			C						
NASA IOA			/2R /2R			[P P]	[N. F	A]	[P P]		[X]	*
COMPARE	[/]		[]	[N]	(]		[N]	
RECOMMEN	IDA!	ΓI	ons:		(If	đ.	if	fere	nt	fr	om	NASA	١)						
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* CIL RE		NT:	ION	RA!	rion:	AL,	E:	(If	ap	pl	ica		A		JATE JATE	[]	
IOA CON		s 1	WITH	N	ASA'	S	SC	REEN	"B	· .									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:			TA: NE [] EW [X]
	EPD&C 5279 DIODE, ISOLATION	N 35A (TO PAYLOAD	CABIN)
LEAD ANALYST:	K. SCHMECKPEPER		
ASSESSMENT:			
CRITICAL: FLIGHT HDW/FUI	r	NCY SCREENS B C	CIL ITEM
NASA [3 /3 IOA [3 /2R] [] [] [P]	[] [] [F]	[x] *
COMPARE [/N] [N] [[и] [и]	[N]
RECOMMENDATIONS:	(If different	from NASA)	
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* CIL RETENTION I	RATIONALE: (If ag	oplicable) ADEQUATI INADEQUATI	
REMARKS: IOA CONCURS WITH THE CIRCUIT.	NASA'S REEVALUAT	TION AFTER FURTHER	ANALYSIS OF

ASSESSME ASSESSME NASA FME	NT I		EPD&C	/88 NASA DATA: C-5280 BASELINE [] -2205-2 NEW [X]]	
SUBSYSTEMDAC ID:	M:		EPD&C 5280 DIODE		sc	LAT:	ION 3	5 A	(TO F	PAYLOAD	CA	BIN)		
LEAD ANA	LYST	:	K. SC	HME	ECI	KPEP	ER							
ASSESSME	NT:													
		ICAL LIGH	ITY T		RI	EDUN	DANC	sc.	REENS	5		CIL		
• •			NC		A		F	3		С				
NASA IOA	[3	/3 /2R]	[P]	[[]	;]	[[p]		[[x]	*
COMPARE	[/N]	[N]	[]	1]	[и ј		[N]	
RECOMMEN	DATI	ons:	(If	d:	if	fere	nt f	rom	NASA))				
74 · · ·	[/	3	[]	[]	[1	(A	[DD/E		ETE)
* CIL RE	TENT	ION	RATION	ĮĄĻ	E:	(If	app:	lica		ADEQUA NADEQUA]	
REMARKS: IOA CONC THE CIRC	URS	WITH	NASA'	s :	RE:	EVAL	UATI	ON A	FTER	FURTH	ER A	NALY	!SIS	S OF

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/04/87 EPD&C-528 05-6-2205		NASA DATA BASELINE NEW	•
	5281	OLATION 35A (TO	PAYLOAD CA	BIN)
LEAD ANALYST:	K. SCHMEC	KPEPER		
ASSESSMENT:				
CRITICAI FLIGH		EDUNDANCY SCREI		CIL ITEM
HDW/FU	'NC A	В	С	
NASA [3 /2F IOA [3 /2F	[P] [NA]] [F]	[P] [P]	[x] *
COMPARE [/] [] [N]	[]	[N]
RECOMMENDATIONS:	(If dif	ferent from NAS	SA)	
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* CIL RETENTION REMARKS:			ADEQUATE INADEQUATE	[]
IOA CONCURS WITH	NASA'S SC	KEEN "B".		

	5/04/87 CPD&C-5282 05-6-2205-1	NASA DATA: BASELINE [] NEW [X]
MDAC ID: 5	PD&C 5282 DIODE, ISOLATION 35A (TO PAYLOAD CABIN)
LEAD ANALYST: K	C. SCHMECKPEPER	
ASSESSMENT:		
CRITICALIT FLIGHT		ITEM
HDW/FUNC	A B	С
NASA [3 /2R] IOA [3 /2R]	[P] [NA] [P] [F]	[P] [X]
COMPARE [/]	ן ון ן ן	[и] [и]
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REMARKS: IOA CONCURS WITH N	NASA'S SCREEN "B".	

	E: 1/01/88 EPD&C-5283 05-6-2205-2		IASA DATA: BASELINE [] NEW [X]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5283 DIODE, ISOLA	ATION 35A (TO PA	YLOAD CABIN)
LEAD ANALYST:	к. ясниескы	EPER	
ASSESSMENT:			
FLIC		JNDANCY SCREENS B C	CIL ITEM
NASA [3 /3 IOA [3 /2	B] [] 2R] [P]	[] [F]	·] [x]*
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RECOMMENDATIONS	G: (If differ	cent from NASA)	
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* CIL RETENTION	N RATIONALE: (1		DEQUATE []
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5284		NASA DATA: BASELINE [] NEW [X]						
	EPD&C 5284 DIODE, ISOI	LATION 35A (TO F	PAYLOAD CAE	BIN)					
LEAD ANALYST:	K. SCHMECKE	PEPER							
ASSESSMENT:									
CRITICAL FLIGH		DUNDANCY SCREENS		CIL ITEM					
HDW/FU	NC A	В	С						
NASA [3 /3 IOA [3 /2R] [] [P]] [] [] [F] [P]	[x]					
COMPARE [/N] [N]] [N]] [и ј	[и]					
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SUBSYSTE MDAC ID: ITEM:				52	D&C 85 ODE,	. 3	[SC	OLA!	rio	N	3 !	5A	(TC)]	PA:	YIX	DAD	CAI	311	1)			
LEAD ANA	LY:	ST	•	ĸ.	SCE	IMI	ECI	KPEI	PER	2													
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	CR.		ICAL LIGH		,		RI	EDUI	NDA	N	CY	sc	CREE	:NS	5				CI	IL PEN			
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NASA IOA	[[3 3	/2R /2R]		[P P]		[NZ F	1]		[P P]			[x]	*	
COMPARE	[/	1		[]		[N]		[]			[N]		
RECOMMEN	DA'	rI	ons:		(If	đ:	if	fere	ent	. 1	fro	om.	NAS	A))								
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* CIL RE												ica	able				TAUÇ TAUÇ		[]		
IOA CONC	UR	s t	HTIW	NA	SA'S	; 5	SCI	REEN	N "	B'	٠.												

ASSESSME ASSESSME NASA FME	NT ID:	EPD&	/87 C-5286 -2395-				N	ASA DA' BASELII N	NE [k]
SUBSYSTE MDAC ID:		EPD& 5286 RPC,	;	ro P	PAYLOAI) CA	BIN			
LEAD ANA	LYST:	K. S	CHMECI	KPEF	ER					
ASSESSME	NT:									
	FLI	ALITY GHT FUNC	RI A	EDUN	IDANCY B	SCR	EENS	2	CI	
NASA	·		_	1	_	1	_	_	r	1 *
IOA	[3 /	3]	[]	[j	į	j	į	j
COMPARE	[/	']	[]	[]	[]	Ţ]
RECOMMEN	IDATION	ıs: (I	f dif	fere	ent fro	om N	ASA)			
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ASSESSME ASSESSME NASA FME	NT I	D:		-528				ı	NASA DA' BASELII NI	NE [] (]
SUBSYSTEMDAC ID:	M:		EPD&C 5287 RPC,		TO P	PAYLOA	D CA	BIN			
LEAD ANA	LYST	:	K. sc	нмес	KPEP	ER					
ASSESSME	NT:										
•		LIGH'	r			IDANCY				CII	
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ASSESSME ASSESSME NASA FME	NT ID:	EPD&C 05-6-	-5288				N	NASA DA BASELI N	INE	: [[X]
SUBSYSTE MDAC ID: ITEM:	M:	EPD&C 5288 RPC,	15A '	ro P	AYLOA	D CAE	BIN				
LEAD ANA	LYST:	K. SC	HMEC	KPEP:	ER			-			
ASSESSME	NT:										
	CRITICA:		R	EDUN	DANCY	SCRE	ENS			CIL	='
	HDW/F		A		E	.	(2			••
NASA IOA	[3 /3 [3 /3]	[[]	[]	[]		[] *
COMPARE	[/]	[]	Į.]	[]		[]
RECOMMEN	DATIONS	: (If	dif	fere	nt fr	om NA	ASA)				
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* CIL RE		RATION		(If	appl	.icabl	7	ADEQUA' ADEQUA'		[]
REMARKS:								-		•	-

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:				NASA DATA BASELINE NEW		
MDAC ID:	EPD&C 5289 RPC, 15A	TO PAYLOAI	CABIN			
LEAD ANALYST:	K. SCHMEC	KPEPER				
ASSESSMENT:						
FLIGH	_				CIL ITEM	ī
HDW/FU	NC A	В	1	С		
NASA [3 /2R IOA [3 /2R] [P] [P] [NA] [P] P]	[] *]
COMPARE [/] [] [N] []	[3
RECOMMENDATIONS:	(If dif	ferent fro	om NASA)			
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* CIL RETENTION :	RATIONALE:	(If appli		ADEQUATE ADEQUATE	[]
IOA CONCURS WITH	NASA'S SCI	REEN "B".				

			NASA DATA: BASELINE [] NEW [X]					
EPD&C 5290 RPC, 15A T	O PAYLOAL) CABIN	1					
K. SCHMECK	PEPER							
	DUNDANCY	SCREE	1S	CIL	v.			
NC A	В		C	*****				
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] [] []	[]	[]			
(If diff	erent fro	om NAS	A)					
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RATIONALE:	(If appli		ADEQUATE]			
	EPD&C-5290 05-6-2395- EPD&C 5290 RPC, 15A T K. SCHMECK ITY RE I NC A] [] [] [(If diff	EPD&C-5290 05-6-2395-2 EPD&C 5290 RPC, 15A TO PAYLOAD K. SCHMECKPEPER ITY REDUNDANCY I A B] [] []] [] [] (If different from the second content of the second content o	EPD&C-5290 05-6-2395-2 EPD&C 5290 RPC, 15A TO PAYLOAD CABIN K. SCHMECKPEPER ITY REDUNDANCY SCREEN INC A B [EPD&C-5290 05-6-2395-2 EPD&C 5290 RPC, 15A TO PAYLOAD CABIN K. SCHMECKPEPER ITY REDUNDANCY SCREENS INC A B C [EPD&C-5290			

ASSESSMEN ASSESSMEN NASA FMEA SUBSYSTEM MDAC ID:	T ID: \ #: I:	6/13/8 EPD&C- 05-6-2 EPD&C 5291	529				ľ	IASA I BASEI	LINE]
ITEM:		RPC, 1				CAB:	EN				
LEAD ANAI	YST:	K. SCH	MECI	KPEPE	R						
ASSESSMEN	T:										
C	RITICAL: FLIGH	T	RI	EDUND.		SCREI				CIL	
	HDW/FU	NC	A		В		C	3			
NASA IOA	[3 /2R [3 /2R]	[P]	[NZ [P	A]	[E	?] ?]		[] *]
COMPARE	[/]	[]	[N]	[1		[]
RECOMMEND	ATIONS:	(If	dif	feren	t fr	om NAS	SA)				
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IOA CONCU	RS WITH	NASA'S	SCI	REEN	"B".						

	6/06/87 EPD&C-5292 05-6-2394	: [x]						
	EPD&C 5292 RPC, 20A	292 RPC, 20A TO P/L AUX & P/L EMERGENCY						
LEAD ANALYST:	K. SCHMECI	KPEPER						
ASSESSMENT:								
CRITICAL FLIGH HDW/FU	T	EDUNDANCY B	SCREENS C		CIL ITEM			
NASA [3 /2R IOA [3 /2R	[P] [P] [P]	[] *			
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t/] [] [] [] (A	[] DD/DELETE)			
* CIL RETENTION REMARKS:	RATIONALE:	(If appli	A	DEQUATE DEQUATE	[]			

ASSESSME ASSESSME NASA FME	NT	ID:	EPD&C	6/06/87 NASA DATA EPD&C-5293 BASELINI 05-6-2394-2 NEV							[] · x]	-
SUBSYSTEMDAC ID:	M:		EPD&C 5293 RPC,		ro p	/L AU	X &	P/L E	MERGEN	ICY	BU	SSES	
LEAD ANA	LYS	T:	K. SC	HMEC	KPEP	ER							
ASSESSME	NT:												
•		TICAL: FLIGH	ITY T	R	EDUN	DANCY	SCF	REENS			CĪL ITEM		
	H	DW/FU	NC	A		В	,	C	:				
NASA IOA	[3 /3 3 /3]	[]	[]	[]		[] *	r
COMPARE	[/	1	[]	ſ]	[]		[]	
RECOMMEN	DAT:	ions:	(If	dif	fere	nt fr	om N	IASA)					
	[/	1	Į]	[]	[]	(AD	[D/1] DELEI	È)
* CIL RE	TEN'	TION 1	RATION	ALE:	(If	appl	icab	A	DEQUAT		[]	
REMARKS:								TNE	PPOORT	ند	L	J	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/06/87 EPD&C-5294 05-6-2322-			NASA DAT BASELIN NI		:]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5294 RESISTOR,	1.8K (TO	MDM OF	2)		
LEAD ANALYST:	K. SCHMECK	(PEPER				
ASSESSMENT:						
CRITICAL		EDUNDANCŸ	SCREEN	s	CII ITE	
FLIGH HDW/FU		В		С		12.2
NASA [3 /3 10A [3 /3] [] [] []	[] *]
COMPARE [/] [] [] [1	[]
RECOMMENDATIONS:	(If diff	ferent fro	om NÄSÄ	()		
[/] [] [] [[(ADD/I] DELETE)
* CIL RETENTION	RATIONALE:	(If appl:		ADEQUATI]
REMARKS:			•		— .	J

ASSESSME ASSESSME NASA FME	NT]	ID:	6/06/ EPD&C 05-6-	-529			NASA DATA: BASELINE [] NEW [X]						
SUBSYSTE MDAC ID: ITEM:			EPD&C 5295 RESIS		2.2	К (ТО	MDM	OF2)				
LEAD ANA	LYST	r:	K. SC	HMEC	KPEP	ER							
ASSESSME	NT:												
•		rical:		R	EDUNI	DANCY	SCRE	ENS		CII			
		FLIGH' OW/FU		A		В			С	ITI	SM.		
NASA IOA	[3	3 /3 3 /3]	[]	[[]	[]	[] *		
COMPARE	[/]	[]	[]	[]	τ]		
RECOMMEN	DATI	cons:	(If	dif	fere	nt fr	om NA	SA)					
-	[/]	[]	[]	[] ([ADD/I] DELETE)		
* CIL RE	TENT	rion 1	RATION	ALE:	(If	appl	icabl	-	ADEQUATE ADEQUATE]		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5296 BASELINE []									
MDAC ID:	EPD&C 5296 RPC,	7.5A	(P/L	, PWR	KILL I	MAIN B/C)				
LEAD ANALYST:	K. SC	HMEC	KPEPE	R						
ASSESSMENT:	ASSESSMENT:									
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM										
Ŧ	INC	A		В		С	112.	•		
NASA [3 /3 IOA [3 /1F]	[[P]	[[P]	[] [P]	[] *		
COMPARE [/N	1	[N]	[N]	[и]	[]		
RECOMMENDATIONS:	(ÍÌ	dif	feren	nt fr	om NAS	A)				
*]	[]	[]	[] ([ADD/D] ELETE)		
* CIL RETENTION	RATION	ALE:	(If	appl						
						ADEQUATE INADEQUATE	. []		
REMARKS: IOA CONCURS WITH PAYLOAD POWER RI				JATIO	N AFTE	R LEARNING	MORE	ABOUT		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5297	NASA DATA: 97 BASELINE [] 6-2 NEW [X]						
	EPD&C 5297 RPC, 7.5A	(P/L PWR	KILL MA	IN B/C)				
LEAD ANALYST:	K. SCHMECK	(PEPER						
ASSESSMENT:								
CRITICALI FLIGHT HDW/FUN		EDUNDANCY		C	CIL			
NASA [3 /1R IOA [3 /2R] [P] [P] [P] [P] [P] P]	[[] *]		
COMPARE [/N] [] [] [J	[]		
RECOMMENDATIONS:	(If diff	erent fro	om NASA)					
] [] [] [] (A	[DD/DI] ELETE)		
* CIL RETENTION F	RATIONALE:	(If appli	-	ADEQUATE ADEQUATE]		
REMARKS: IOA CONCURS WITH PAYLOAD POWER REC			AFTER	LEARNING	MORE	ABOUT		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		8 - 1		NASA DAT BASELIN NE	
MDAC ID:	EPD&C 5298 DIODE, IS	OLATIO	N 35A (TC	MAIN DC D	OIST ASSY #2
LEAD ANALYST:	K. SCHMEC	KPEPER			
ASSESSMENT:					
CRITICAL FLIGH HDW/FU	T .	~	NCY SCREE	c C	CIL ITEM
NASA [3 /1R IOA [3 /1R			[NA] [P]	[P] [P]	[] *
COMPARE [/] []	[N]	[]	[]
RECOMMENDATIONS:	(If dif	ferent	from NAS	SA)	
. [/] []	[]	[]	[] [ADD/DELETE)
* CIL RETENTION REMARKS:				ADEQUATE	
IOA CONCURS WITH	NASA'S SC	CKEEN "	в"•		

ASSESSME ASSESSME NASA FME	NT I	D:	EPD&C	-529					NASA DATA: BASELINE [] NEW [X]				
SUBSYSTE MDAC ID: ITEM: P/L PWR)	EPD&C 5299 DIODE	, IS	OLATI	ом з	5A (TC	MA]	IN DC	DIST	ASSY	#2 -	
LEAD ANA	LYST	:	K. SCI	HMEC	KPEPE	R							
ASSESSME	NT:												
FLIGHT								CI	L EM				
	HD	W/FUN	1C	A		В		С					
NASA IOA	[3 [3	/1R /2R]	[P]	[N	A]	[P [P]	[[] ;	k	
COMPARE	[/N]	[]	[N]	[]	[]		
RECOMMEN	DATI	ons:	(If	dif	ferent	fre	om NAS	SA)					
-	[/	1	[]	[]	[]	(ADD/	DELET	ľE)	
* CIL RE	TENT:	ION F	RATION	ÀLE:	(If a	appl	icable	AD	EQUAT	•]		
REMARKS: NASA HAS IOA CONC CONCERNS	URS 1												

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	: 6/04/87 EPD&C-5300 05-6-2209-2	BASEL	NASA DATA: BASELINE [] NEW [X]							
SUBSYSTEM: MDAC ID: ITEM: P/L PWR KILL)	EPD&C 5300 DIODE, ISOLAT	TION 35A (TO MAIN DC	DIST ASSY #3 -							
LEAD ANALYST:	K. SCHMECKPE	PER								
ASSESSMENT:										
CRITICA FLIG	CIL ITEM									
	UNC A	ВС								
NASA [3 /1 IOA [3 /2	R] [P] R] [P]	[NA] [P] [P] [P]	[] *							
COMPARE [/N] []	[и] [и]	[]							
RECOMMENDATIONS	: (If differe	ent from NASA)								
. [/] []	[] []	[] (ADD/DELETE)							
* CIL RETENTION	* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [] INADEQUATE []									
REMARKS: NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA. IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.										

ASSESSMENT DATE: 6/04/87 ASSESSMENT ID: EPD&C-5301 NASA FMEA #: 05-6-2209-1								NASA DATA: BASELINE [] NEW [X]						
SUBSYSTE MDAC ID: ITEM: P/L PWR			EPD&C 5301 DIODE	, IS	ITAIC	ои	35	δA	(TO 1	MAIN	DC I	DIST	ASSY	#3
LEAD ANA	LYS'	r:	K. SCI	HMEC	KPEPE	R								
ASSESSME	NT:												-	: :
]	FLIGHT DW/FUN		RI A	EDUND	ANG	EY B	SC	REEN:	s C		CI	L EM	
NASA IOA	[:	3 /1R 3 /1R]	[P]	[NA P]	[P] P]]]	*
COMPARE	[/]	[]	[N]	C]		[3	
RECOMMEN	DAT:	ions:	(If	dif	feren	t i	fro	m I	NASA)				
•	[/]	[]	[]	[]	([(ADD/	DELE	TE)
* CIL RE	TEN!	TION F	RATION	ALE:	(If	app	oli	.ca		ADEC	UATI UATI	•]	
REMARKS: IOA CONC	URS	WITH	NASA'S	SSCI	REEN	"B'	, .				-	•	_ i. ::.	i Istoria

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	* *	=	NASA DATA: BASELINE [] NEW [X]								
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5302 DIODE, ISOLATI										
LEAD ANALYST: K. SCHMECKPEPER											
ASSESSMENT:											
CRITICAL FLIGH HDW/FU	CIL ITEM										
NASA [3 /3 IOA [3 /11	[] [P]	[] [] [F] [P]	[x] *								
COMPARE [/N] [N]	[и] [и]	[и]								
RECOMMENDATIONS	: (If differer	nt from NASA)									
[/] []	[] []	[] (ADD/DELETE)								
	* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [] INADEQUATE []										
IOA CONCURS WITH	REMARKS: IOA CONCURS WITH NASA RE-EVALUATION AS IOA WAS UNAWARE OF NSTS PROGRAM POLICY NOT TO SUPPLY PAYLOAD POWER DIRECTLY FROM FUEL										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/04/87 EPD&C-5303 05-6-2210-2		NASA DATA: BASELINE [] NEW [X]						
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5303 DIODE, ISOI	ATION 35A (TO) P/L PWR KI	LL - FC#3)					
LEAD ANALYST:	K. SCHMECKE	PEPER							
ASSESSMENT:									
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM									
HDW/FU	NC A	В	C						
NASA [3 /1R IOA [3 /3] [P]	[NA] []	[P] []	* []					
COMPARE [/N] [N]	[N]	[N]	[]					
RECOMMENDATIONS:	(If diffe	erent from NAS	SA)						
] []	[]	[] (AI	[] DD/DELETE)					
* CIL RETENTION F	RATIONALE: (If applicable	e) ADEQUATE INADEQUATE	[]					
REMARKS: NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA. IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.									

ASSESSME ASSESSME NASA FME	NT ID:	EPD&C	87 -5304 2397-1			_	ASA DATA BASELINE NEW]
SUBSYSTEMDAC ID:	M:	EPD&C 5304 RPC,		P/L PWR	KILL	F/C	#3)		
LEAD ANA	LYST:	K. SC	HMECKF	PEPER					
ASSESSME	NT:								
	CRITICA FLIG	HT		OUNDANCY -				CIL ITEN	1
	HDW/F	UNC	A	В	i	C			
NASA IOA	[3 /3 [3 /1] R]	[] [P]	[[P]	[[P]	[] *
COMPARE	[/N	j	[N]	[N)	[N]	[]
RECOMMEN	DATIONS	: (I1	diffe	erent fr	om NA	SA)			
	[/]	[]] []	[] (2	[\DD/D1] ELETE)
* CIL RE	TENTION	RATION	NALE: ((If appl	icabl	e)		_	_
							DEQUATE DEQUATE	-]
REMARKS: IOA CONC PAYLOAD	URS WIT			VALUATIO	N AFT	ER I	EARNING	MORE	ABOUT

ASSESSME ASSESSME NASA FME	NT I	D:	EPD&C-	5/13/87 5PD&C-5305 05-6-2397-2						NASA DATA: BASELINE [] NEW [X]				
SUBSYSTE MDAC ID:			EPD&C 5305 RPC,	7.5A	(P/L	PWF	KILL	. F,	/C#3)					
LEAD ANA	LYST	:	K. SCI	HMECI	KPEPE	R								
ASSESSME	NT:													
	F	LIGH					SCRE		-	CIL				
	HD	w/ FUI	4C	A		E			C					
NASA IOA	[3 [3	/1R /2R]	[P]	[N	[A]	[P] P]	[] *]			
COMPARE	C	/N]	[]	[N]	[]	[]			
RECOMMEN	DATI	ons:	(If	difi	feren	t fr	om NA	SA))					
	[/]	נ]	[]	[]	(ADD/D				
* CIL RE	TENT	ION I	RATIONA	ALE:	(If a	appl	icabl	e)						
1			-					I	ADEQUAT ADEQUAT]			
REMARKS:	URS		the first than the second of the second	ger and a segment of the second	0 = 340 · · · · · · · · · · · · · · · · · · ·	ATIC	N AFT	ER	LEARNII	G MORE	ABOUT			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	T DATE: 12/18/87 NASA DATA T ID: EPD&C-5306 BASELINE #: 05-6-2227-1 NEW									
	EPD&C 5306 SWITCH, TO									
LEAD ANALYST:	K. SCHMECH	KPEPER								
ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM										
HDW/FU	NC A	В	С							
NASA [3 /1R IOA [3 /2R	[P] [NA]] [P]	[P] [P]	[] *						
COMPARE [/N] [] [N]	[]	[]						
RECOMMENDATIONS:	(If dif	ferent from NAS	SA)							
[/	,1 [] []	[] (A)	[] DD/DELETE)						
* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [] INADEQUATE []										
REMARKS: NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS TO TRANSFER, FAILS TO OPEN, FAILS TO CLOSE. IOA CONCURS WITH NASA'S REEVALUATION.										

		ENT DATE: ENT ID: EA #:		530			NASA DATA: BASELINE [] NEW [X]						
	SUBSYSTE MDAC ID:		EPD&C 5306 SWITCH	, T	OGGLI	E SPD	Т (Р	AYLC	DAD 1	PRI MN	В)		
	LEAD ANA	ALYST:	K. SCH	MECI	KPEPI	ER							
	ASSESSME	ENT:											
		CRITICAL FLIGH	T			DANCY		EENS			CI IT	L EM	
		HDW/FU	NC	A		В			С				
	NASA IOA	• ,]	[P [P]	[N	A] A]	[P] P]		[x] x]	*
	COMPARE	[/]	[]	[]	[]		[]	
	RECOMMEN	DATIONS:	(If	difi	ferer	nt fr	om N	ASA)					
	#	[,,,/	1	[]	[]	[.]	(A		DEL	ETE)
	* CIL RE	TENTION	RATIONA	LE:	(If	appl	icab	-	ADE	QUATE	[х j	
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ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	EPD&C-5	307	NASA DATA: BASELINE [] NEW [X]								
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5307 SWITCH,	TOGGLE	SPDT (PA)	(LOAD PRI MN	В)						
LEAD ANALYST:	K. SCHM	ECKPEPER									
ASSESSMENT:											
CRITICA FLIG	LITY HT	REDUNDA	NCY SCRE		CIL ITEM						
HDW/F	UNC	A	В	С							
NASA [3 /3 IOA [3 /2] [R] [P]	[] [P]	[] [P]	[] *						
COMPARE [/N] [ו א	[N]	[N]	[]						
RECOMMENDATIONS	: (If d	ifferent	from NA	SA)							
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* CIL RETENTION	* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [] INADEQUATE []										

ASSESSME ASSESSME NASA FME	NT I NT I A #:	DATE:	12/18 EPD&C 05-6-	/87 :-530 :2226	8 -1	-	A DATA: SELINE [NEW [
SUBSYSTE MDAC ID: ITEM:			5308		'OGGL	E SPDT	(PAYLOAD	PRI F/C#3	· · · · · · · · · · · · · · · · · · ·		
LEAD ANA	LYSI	·:	K. SC	HMEC	KPEP	ER					
ASSESSME	NT:										
	_		ITY T				CREENS	CI:			
	H	W/FU	NC	A	•	В	С		-		
NASA IOA	[3	/1R /2R]	[P]	[NA] [P]	[P] [P]]] *]		
COMPARE	[/N]	[]	[и]	[]	[]		
RECOMMEN	DATI	ons:	(If	dif	fere	nt from	NASA)				
	(/]	[)	[.]	[]] DELETE)		
* CIL RE	TENT	ION	RATION	ALE:	(If	applic	able)	· · · · · · · · · · · · · · · · · · ·	= = -		
REMARKS:							ADE(] STAUC] STAUC]		
NASA HAS	RED	EFIN	ED THI	S FA E.	ILUR IOA	E MODE	AS: FAIL T	ro transfi A's reeval	ER, FAII LUATION.		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/18/87 EPD&C-5308 05-6-2226-	5308A BASELINE [
	EPD&C 5308 SWITCH, TO	OGGLE SPDT (PAY	C#3)							
LEAD ANALYST:	K. SCHMECH	KPEPER								
ASSESSMENT:										
CRITICAL: FLIGH HDW/FU	T	EDUNDANCY SCREE B	ens C	CIL ITEM						
NASA [2 /1R IOA [2 /1R] [NA]] [NA]	[P] [P]	[X] *						
COMPARE [/] [] []	[]	[]						
RECOMMENDATIONS:	(If dif	ferent from NAS	SA) ·							
[/] [] []	[] (A	[DD/DELETE)						
* CIL RETENTION REMARKS:	RATIONALE:	(If applicable	e) ADEQUATE INADEQUATE	[X]						

ASSESSMENT DATE: 12/18/87 ASSESSMENT ID: EPD&C-5309 NASA FMEA #: 05-6-2226-2							NASA DATA: BASELINE [] NEW [X]							
SUBSYSTEM: EPD&C MDAC ID: 5309 ITEM: SWITCH, TOGGLE SPDT (P							AYLOA	D PRI	F/C	#3)	-			
LEAD ANA	LYS	ST	:	K. SCH	IMEC	KPEPE	R							
ASSESSMENT:														
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM														
	1		W/FUI		A	•	1	В	С		•	LIEF	1	
NASA IOA	[2	/1R /2R]	[P		[]	P]	[P [P]		[X] ;	k
COMPARE	[N	/N]	[]	[]	[]		N]	
RECOMMEN	DA'	ri(ONS:	(If	dif	feren	it fi	com N	ASA)					
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* CIL RE	TEI	NT:	ION I	RATIONA	LE:	(If	app]	licab						
										DEQUAT DEQUAT	re re	[X []	
REMARKS:	וס	וחק	FFTNI	יה יישד פ	: FA	TIJIPE	MOI	TE AC	• FAT	וא פדר	OGED	ŤN	" O	J #
	SA HAS REDEFINED THIS FAILURE MODE AS: FAILS CLOSED IN "ON" SITTON TO CONCURS WITH NASA'S REEVALUATION													

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-531	0	NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	5310	OGGLE SPDT	(PAYLOAD PRI MN	c)
LEAD ANALYST:	K. SCHMEC	KPEPER		
ASSESSMENT:				
		EDUNDANCY S	SCREENS	CIL ITEM
FLIGH HDW/FU	NC A	В	С	IIBM
NASA [3 /1R IOA [3 /2R] [F	[NA] [P]] [P]	[] * []
COMPARE [/N] [] [N]] []	[]
RECOMMENDATIONS:				
्रा के प्रकार सम्बद्धाः] [] [] [] (A	[DD/DELETE)
* CIL RETENTION	RATIONALE:	(If applio	cable) ADEQUATE INADEQUATE	[]
REMARKS: NASA HAS REDEFIN TO OPEN, FAILS T	ED THIS FA	LILURE MODE	AS: FAILS TO TR S WITH NASA'S RE	ANSFER, FAILS

ASSESSMENT ASSESSMENT NASA FMEA	r ID:	EPD&C-5	310A		NASA DATA BASELINE NEW	• •
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5310 SWITCH,	TOGGLE	SPDT (PA	YLOAD PRI MN	r c)
LEAD ANALY	ST:	K. SCHMI	ECKPEPE	R		
ASSESSMENT	? :					
CF	RITICALI FLIGHT HDW/FUN	[REDUND.	ANCY SCRE	ENS C	CIL ITEM
NASA [IOA [2 /1R 2 /1R] [P] P]	[NA] [NA]	[P] [P]	[X] *
COMPARE [. /] []	[]	[]	[]
RECOMMENDA	ATIONS:	(If d	lfferen	t from NA	SA)	
. [. /] []	[]	[] (A	[DD/DELETE)
* CIL RETE	ENTION F	RATIONALI	E: (If	applicable	e) ADEQUATE INADEQUATE	[X]

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/18/87 EPD&C-531 05-6-2227		NASA DA BASELI	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5311 SWITCH, To	OGGLE SPDT	(PAYLOAD PRI	MN C)
LEAD ANALYST:	K. SCHMEC	KPEPER		
ASSESSMENT:				
CRITICAL FLIGH	T	EDUNDANCY		CIL ITEM
HDW/FU	NC A	В	C	
NASA [3 /3 IOA [3 /2R] [] [P] [P] []] [P]	[] *
COMPARE [/N] [N	ј [и] [N]	[]
RECOMMENDATIONS:	· (If dif	ferent fro	m NASA)	
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* CIL RETENTION	RATIONALE:	(If appli	.cable) ADEQUA	יים היים יים היים היים היים היים היים הי
			INADEQUA	
REMARKS: NASA HAS REDEFIN WITH NASA'S REEV	The second secon	ILURE MODE	AS: SHORTS.	IOA CONCURS

ASSESSME ASSESSME NASA FME	NT II):		-53									DATI LINI NEV	E (X]	
SUBSYSTE MDAC ID: ITEM:			EPD&C 5312 SWITC	н,	MC	OTORI	ZE	D (MAIN	ı Do	C E	3US	в то) I	PAY	LOA	.D)
LEAD ANA	LYST:	:	K. SCI	IMI	ECI	KPEPEI	₹										
ASSESSME	NT:																
		CALI	ITY I		RI	EDUNDA	\N	CY	SCRE	EENS	3			_	IL TEI	M	
	HDW	/FUI	NC		A			В			С						
NASA IOA	[3 [3	/1R /2R]	[P P]	[N# P]]	P P]		[]	*
COMPARE	[/N]	[]	[N]	[]]	
RECOMMEN	DATIC	ns:	(If	di	ff	ferent	: :	fro	m NA	SA)							
	[/]	[]	[]	[]	(2)/DI		TE)
* CIL RE		ON F	RATION	ALE	E:	(If a	p	pli	cabl	•	AE	EQU EQU	IATE IATE	 []	
REMARKS:		/ITH	NASA A	\FT	EF	R FURT	'H	ER	ANAI	χŞĮ	s.						

ASSESSME ASSESSME NASA FME	NT I		EPD	4/87 &C-531 5-2141				ŀ		DATA LINE NEW	[
SUBSYSTE MDAC ID:			EPD 531: SWI		OTOR	IZED	(MAI	N DC	BUS	в то	PA	YLOAD)	
LEAD ANA	LYST	:	к. 8	SCHMEC	KPEP	ER							
ASSESSME	ENT:												
	CRIT	ICAI LIGH		R	EDUN	DANCY	SCR	EENS			CI		
-		W/FU		A		В		(
NASA IOA	[3 [3	/3 /3]	[]	[]	[[]]] *	
COMPARE	[/	1	[]	[3	[]		[]	
RECOMMEN	NDATI	ONS:	: (If dif	fere	ent fr	om N	ASA)					
_	[/]	Ţ]	[]	[]	(A	[DD/] DELETE	;
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ASSESSME															
ASSESSME NASA FME			EPD&C- 05-6-2				•		BASEL	NEW			124		
SUBSYSTE MDAC ID: ITEM:	M:		EPD&C 5314 RESIST	or,	5.1F	C 1/4	W (TO	MDI	M OF3)			22			
LEAD ANA	LYSI	r:	K. SCI	IMECI	KPEPE	ER									
ASSESSME	NT:									-					
		CICAL:		RI	EDUNI	ANCY	SCRE	ENS			CIL				
		FLIGHT W/FU		A		В		(С		TIE	M			
NASA IOA	[3	3 /3]	[]	[]	[]		[]	*		
COMPARE	[/]	[]	[]	[3		[]			
RECOMMEN	DATI	ons:	(If	dif	ferer	nt fr	om NA	SA)							
4	[/]	[]	[]	[]	(AI	[D/D	ELE	TE)		
* CIL RE	TENI	CION 1	RATION	ALE:	(If	appl	icabl	1	ADEQUA ADEQUA		[]			
REMARKS:								T 142	TDECOU		L	J			

ASSESSME ASSESSME NASA FME	NT I	D:	6/06/ EPD&C 05-6-	:-531				N	IASA I BASE	LINE			
SUBSYSTE MDAC ID:	M:		EPD&C 5315 RESIS		1.2	K 2W							
LEAD ANA	LYST	' :	K. S	CHMEC	KPEP	ER							
ASSESSME	NT:												
•		'ICAL	ITY	R	EDUN	DANCY	SCRI	EENS			CII	_	
	_	W/FU	_	A		В		(2			14.4	
NASA IOA	[3	/3]	[[]	[]]]	-	[]	*
COMPARE	[/]	[]	[]	[]		[]	
RECOMMEN	DAT1	ONS:	(11	f dif	fere	nt fr	om N	ASA)					
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REMARKS:	:												

7/01/87 EPD&C-5315A 05-6-2324-2		BASELINE	[]
EPD&C 5315 RESISTOR, 1.2	K 2W			
K. SCHMECKPEP	ER			
	DANCY SCRE	ENS	CIL	-
NC A	В	С	TTEM	1
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(If differe	nt from NA	SA)		
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RATIONALE: (If	applicabl	•	[]
	EPD&C-5315A 05-6-2324-2 EPD&C 5315 RESISTOR, 1.2 K. SCHMECKPEP TY REDUNT IC A [] [] [] [] [] [] [] []	EPD&C-5315A 05-6-2324-2 EPD&C 5315 RESISTOR, 1.2K 2W K. SCHMECKPEPER TY REDUNDANCY SCRE COLUMN A B [EPD&C-5315A BASELINE 05-6-2324-2 NEW EPD&C 5315 RESISTOR, 1.2K 2W K. SCHMECKPEPER ETY REDUNDANCY SCREENS ENC A B C [EPD&C-5315A

ASSESSME ASSESSME NASA FME	NT ID:	;	EPD&C	-531							NASA I BASEI		[]	
SUBSYSTEMDAC ID:	M:		EPD&C 5316 FUSE,	150	ΟĀ	TO	MA	IN	DC	DIST	ASSY	3 (1	PAS	'LC	ÒAE))
LEAD ANA	LYST:		K. SC	HME	CK	PEPI	ΞR									
ASSESSME	NT:															
	FL]	IGH?	ITY T NC]		DUNI	OAN	CY B	SCR		C		C)	IL PEN	1	
	•					_	_	_								
NASA IOA	[3 /]	[]	P P]	[N. F	A.)	[[P]		[X]	*
COMPARE	[/	/N	1	[1	[N]	[]		[N]	
RECOMMEN	DATIO	NS:	(If	di	ff	ere	nt	fr	om N	ASA)						
	[/	/]	[]	[]	[]	(A		/D1		ETE)
* CIL RE	TENTI	ON I	RATION	ALE	•	(If	ap	pl	icab		ADEQU IADEQU		<u>ר</u>]	
REMARKS: IOA CONC THE CIRC		ITH	NASA'	s R	EI	EVAL	TAU	10	N AF	TER	FURTH	ER A	NA:	LYS	SIS	5 OI

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5317	7 -1	NASA DATA: BASELINE [] NEW [X]							
	EPD&C 5317 FUSE, 150	A TO MAIN DO	C DIST ASSY 3 (PAYLOAD)						
LEAD ANALYST:	K. SCHMECI	KPEPER	e vita							
ASSESSMENT:										
CRITICALI FLIGHT HDW/FUR	ľ	EDUNDANCY SO B	CREENS	CIL ITEM						
NASA [3 /1R IOA [3 /2R] [P] [NA]] [F]	[P] [P]	[] *						
COMPARE [/N] [] [N]	[]	[N]						
RECOMMENDATIONS:	(If dif	ferent from	NASA)							
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* CIL RETENTION I	RATIONALE:	(If applica	ible)							
			ADEQUATE INADEQUATE	[]						
REMARKS: IOA CONCURS WITH THE CIRCUIT.	NASA'S REI	EVALUATION A	AFTER FURTHER A	NALYSIS OF						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	7/01/87 EPD&C-531 05-6-2240	_		NASA DATA BASELINE NEW		3
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5318 SWITCH, T	OGGLE SPDT	F (FC 3	STRUCT RI		was const. We write . *
LEAD ANALYST:	K. SCHMEC	KPEPER				
ASSESSMENT:						
CRITICAL FLIGH	T	EDUNDANCY	SCREENS	5 C	CII	
HDW/FU	nc a	. Б		C		
NASA [3 /3 IOA [3 /1R] [] [P] [P] [] P]	[] *
COMPARE [/N] [N	и ј [и] [n j	[]
RECOMMENDATIONS:	(If dif	ferent fro	om NASA)		
[/] [] [] [] (2	[\DD/I] DELETE)
* CIL RETENTION	RATIONALE:	(If appli		ADEQUATE NADEQUATE	[]
REMARKS: IOA CONCURS WITH	NASA'S RE	EVALUATION	N AFTER	LEARNING	OF I	MCR11954.

ASSESSME	NT I	D:	TE: 7/01/87 NASA DATA: EPD&C-5318A BASELINE 05-6-2240-2 NEW EPD&C									x]	
SUBSYSTE	Y:		EPD&C										
MDAC ID:			5318										
ITEM:			SWITCH	I, T	OGGLE	SI	PDT	(FC	3 S	TRUCT I	RTN)		
LEAD ANA	LYST	:	K. SCH	IMEC	KPEPEI	R							
ASSESSME	NT:												
(ICALI LIGHT	TY r	R	EDUNDA	ANC	CY S	SCREI	ens		CI		
			ic	A	•		В		C	ı			
NASA	[2	/1R	1	[P	1	[NA]	[P]	[X]	*
IOA	[2	/1R]	[P	j	Ī	NA	j	[P	j	[хј	
COMPARE	[/]	[]	[]	[]	[]	
RECOMMENI	DATI	ons:	(If	dif	ferent	t i	froi	m NAS	SA)				
	(/]	[. 1	[] _	[]	[ADD/] DELE	TE)
* CIL RET	rent:	ION I	RATIONA	ALE:	(If a	ąpį	olio	cable	A	DEQUATE DEQUATE		x]	
REMARKS:	י סמי	штти	MACAIO	יום י	F778 T 117	י תי	ON	አ ድጥዩ	ז סי	FADNTNO	. OF	MCD1	1054

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	7/01/87 EPD&C-531 05-6-2240			A DATA: SELINE [NEW [x]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5319 SWITCH, T	OGGLE SPD	r (FC 3 STR	RUCT RTN)	
LEAD ANALYST:	K. SCHMEC	KPEPER			
ASSESSMENT:					
CRITICAL		EDUNDANCY	SCREENS	CI	
FLIGH HDW/FU		в.	c	11	rem
NASA [3 /3 IOA [3 /1R] [] [P] [P] []] [P]]] *]
COMPARE [/N) [N	(N] [N]	[1
RECOMMENDATIONS:	(If dif	ferent fro	om NASA)		
[/] [] [] []] (ADD ₎] 'DELETE)
* CIL RETENTION	RATIONALE:	(If appl	ADE	QUATE [QUATE []
REMARKS: IOA CONCURS WITH	NASA'S RE	EVALUATIO	N AFTER LEA	ARNING OF	MCR11954.

	6/06/87 EPD&C-5320 05-6-2606-1	NASA DATA: BASELINE [] NEW [X]						
	EPD&C 5320 FUSE, 150A		. 2 m 11					
LEAD ANALYST:	K. SCHMECKP	PEPER	 .					
ASSESSMENT:								
CRITICALI FLIGHT		UNDANCY SCREEN	s	CIL ITEM				
HDW/FUN		В	C					
NASA [3 /1R IOA [3 /2R] [P]	[NA] [[F] [P] P]	[] * [X]				
COMPARE [/N] []	[и]]	[N]				
RECOMMENDATIONS:	(If · diffe	rent from NASA) · · · · · · ·					
[/] []	[] [[] DD/DELETE)				
* CIL RETENTION F	RATIONALE: (ADEQUATE NADEQUATE	[]				
REMARKS: IOA CONCURS WITH THE CIRCUIT.	NASA'S REEV	ALUATION AFTER	FURTHER AN	ALYSIS OF				

ASSESSME ASSESSME NASA FME		-53								SA DA SASELI		[x]			
SUBSYSTE MDAC ID: ITEM:			EPD&C 5321 FUSE,		0 <i>2</i>	OT A	PA	ZLC)AD								
LEAD ANA	LYSI	:	K. SC	HME	CF	(PEPI	ER										
ASSESSME	NT:																
		TICAL	ITY		RE	EDUNI	OAN	CY	SCR	EENS	5 ·			CI IT		ſ	
	NC		A				В			С				•			
NASA IOA		3 /1R 3 /2R]	P P]	[NA F	A]	[P P]		[x]	*
COMPARE	[/N]	[]	[N]	[]		[N]	
RECOMMEN	DAT:	cons:	(If	đ	Ĺfí	fere	nt :	fro	om N	ASA))						
	[/]	[]	[]	[-]	(Al	[DD/	DE] ELI	ETE)
* CIL RE	ETEN:	rion :	RATION	IALI	Ξ:	(If	ap	p1 :	icab	-		DEQUA'		[]	
REMARKS: IOA CONC THE CIRC	CURS		NASA	'S I	REI	EVALI	JAT:	101	N AF	TER	FU	JRTHE	R A	NAI	¥S	SIS	S OF

ASSESSMEN ASSESSMEN NASA FMEA	IT I	-1																
SUBSYSTEN MDAC ID: ITEM:	1:		EPD&6 5322 FUSE		007	то	PA	YL	DAD	Ţ.)		- ·			-		· - · - _; ·-	
LEAD ANAI	YST	:	K. S	CHM	ECI	PEP	ER								2			
ASSESSMEN	T:																	
c		[CAL] LIGHT	TY		RE	DUN	DAN	CY	SC	REEN	S			CI	L EM			
		/FUN			A			В			C					•		
NASA IOA	[2 [3	/2 /2R]]	P]	[F]	[P]		[X X]	*	
COMPARE	[N	/N]	[N]	[N]	[N]		[]		
RECOMMEND	ATIO	ONS:	(I:	f d:	iff	ere	nt i	fro	om	NASA)							
	[/]	[]	[]	[]	(AI	[DD/	DE] LE	TĒ)	
* CIL RET	ENT	ON F	OITAS	NALI	Ξ:	(If	app	1 1	ica	·	A	DEQU <i>E</i> DEQU <i>E</i>		[]		
REMARKS: IOA CONCU THE CIRCU PAYLOAD.			NASA A DID														ION	OF

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5323	NASA DAT. BASELIN NE	
	EPD&C 5323 FUSE, 200A TO	PAYLOAD	
LEAD ANALYST:	K. SCHMECKPEP	ĖR	
ASSESSMENT:			
CRITICAL: FLIGH		DANCY SCREENS	CIL ITEM
HDW/FU		ВС	
NASA [2 /2 IOA [3 /2R] [p]	[] [] [F] [P]	[X] * [X]
COMPARE [N /N] [n]	[и] [и]	[]
RECOMMENDATIONS:	(If differe	ent from NASA)	
[/] []	[] []	[] ADD/DELETE)
* CIL RETENTION	RATIONALE: (If	applicable) ADEQUATE INADEQUATE	
REMARKS: IOA CONCURS WITH THE CIRCUIT. IO PAYLOAD.	NASA'S REEVAL A DID NOT CONS	JUATION AFTER FURTHER SIDER A SINGLE STRING	EXAMINATION OF POWERED

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5324		SA DATA: ASELINE [] NEW [X]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5324 FUSE, 200A TO	PAYLOAD	
LEAD ANALYST:	к. всимескрери	= ER () () () () () () () () () (
ASSESSMENT:			and the second second second
CRITICAL FLIGH	ITY REDUNI	DANCY SCREENS	CIL ITEM
HDW/FU		B C	IIEM
NASA [2 /2 IOA [3 /2R] [p]	[] [] [F]	[X] *
COMPARE [N /N	ן תו	[N] [N]	[]
RECOMMENDATIONS:	(If differen	it from NASA)	
[, /] []	[] []	[] (ADD/DELETE)
* CIL RETENTION 1	RATIONALE: (If	ADE	QUATE []
REMARKS: IOA CONCURS WITH THE CIRCUIT. IOA PAYLOAD.			THER EXAMINATION OF RING POWERED

ASSESSMEN ASSESSMEN NASA FME	1																		
SUBSYSTEM MDAC ID:	M:		EPI 532 FUS	25	20	OA	то	PA	YLO	DAD)								
LEAD ANA	LYST	:	ĸ.	SCH	IME	CK	PEP	ER											
ASSESSME	NT:																		
ë		ICAL				RĒ	DUN	DAN	ĊY	SC	REEN	S				IL EM	r		
		W/FU				A			В			С		* · · · · ·					
NASA IOA		/2 /2R]		[P]	[F]	[P]]	X X]	*	
COMPARE	[N	/N]		[N]	[N]	[N]		(]		
RECOMMEN	DATI	ons:	((If	di	ff	ere	nt	fr	om	NASA	۲)							
-	ľ	/]		[)	[]	. []			/DE		ETE)	
* CIL RE	TENT	'ION	RAT	ION	ALE	:	(If	ap	pl:	ica		A	DEQUAT		[]		
REMARKS: IOA CONC THE CIRC PAYLOAD.		WITH IO	NAS A D	SA'S ID N	R TO	EE	EVAL	UAT IDE	IO	N A	AFTER SINGI	E E	URTHEI STRING	R EX	(A)	MIN ERH	IAT	TION	OF

ASSESSME ASSESSME NASA FME	6 - 1			N	IASA DA BASELI N		[х]					
SUBSYSTE MDAC ID: ITEM:	M:		EPD&C 5326 RESIS	ror,	1.2	K 2W			<u>.</u> .					
LEAD ANA	LYS	r:	K. SC	HMEC	KPEP	ER	-	÷ ÷						
ASSESSME	NT:													
			ITY	RI	EDUN	DANCY	SCRE	ENS			CI			
		FLIGH' OW/FU		A		В	ВС					EM		
NASA IOA	[3	3 /3]	[]	[[]	[]]]	*
COMPARE	[/]	[]	[]	[]		[]	
RECOMMEN	DAT]	ons:	(If	dif	ferei	nt fr	om NA	SA)						
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* CIL RE	TENI	I MOIT	RATION	ALE:	(If	appl:	icabl	A	DEQUAT		֭֡֝֝֟֝֜֝֟֝֜֝֩]	
REMARKS:								TNU	DUZONI	_	L	•	j	

REPORT DATE 02/23/88 C-358

ASSESSME ASSESSME NASA FME	NT ID:			N	IASA DA BASELI N	NE	: [x]				
SUBSYSTE MDAC ID:		EPD&C 5326 RESIST	or,	1.2	. 2W							
LEAD ANA	LYST:	K. SCH	IMECI	KPEPI	ER					-		
ASSESSME	NT:											
-	CRITICAI FLIGH		RI	EDUNI	DANCY	SCRE	ens			CIL		
	HDW/FU		A		В		C	:				
NASA IOA	[3 /3 [3 /3]	[]]]	[]] []	*
COMPARE	[/	1	[]	[]	[]		[]	
RECOMMEN	DATIONS:	(IÍ	dif	fere	it fr	om NA	SA)		-			
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* CIL RE	TENTION	RATIONA	LE:	(If	appl	icabl	7	DEQUAT		[]	
REMARKS:									-	•	,	

ASSESSMENT I ASSESSMENT I NASA FMEA #	ID: EF	706/87 PD&C-5327 5-6-2324-1				DATA: ELINE NEW	: []
SUBSYSTEM: MDAC ID: ITEM:	53	PD&C 327 SSISTOR, 3	1.2K 2W					
LEAD ANALYS	r: K.	SCHMECKI	PEPER					
ASSESSMENT:							÷ +	
	FICALITY FLIGHT DW/FUNC	rei A	DUNDANCY B		ns C		CIL	
NASA [:	3 /3]	[]] []	[]		[] *
COMPARE [/]	[]) []	[]		[]
RECOMMENDAT	ions:	(If diffe	erent fr	om NAS	A)			
	/]	[]) []	[]	(AI	[] ELETE)
* CIL RETEN'	TION RAT	CIONALE:	(If appl	icable		UATE UATE	[]

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	7/01/87 EPD&C-5327 05-6-2324-			NASA DA BASELI N		
0000101111	EPD&C 5327 RESISTOR,	1.2K 2W				
LEAD ANALYST:	K. SCHMECH	KPEPER				
ASSESSMENT:						
CRITICAL: FLIGH	r	EDUNDANCY B	SCREE	ens C	CIL ITEM	
HDW/FUI			_	_		
NASA [3 /3 IOA [3 /3] [] []		[]	*
COMPARE [/] [] []	[]	[]	
RECOMMENDATIONS:	(If dif	ferent fr	om NAS	SA)		
, , , , , , , , , , , , , , , , , , ,] []	[]	[] (ADD/DELE	ΤE
* CIL RETENTION REMARKS:	RATIONALE:	(If appl	icable	e) ADEQUAT INADEQUAT		

ASSESSMI ASSESSMI NASA FMI SUBSYSTI MDAC ID:	ent Ea Em:	II):	EPD					r	IASA BASE		[x]	
ITEM:				RES	ISTOR,	5.1	LK 1/4	r) W	O MDN	OF3)			
LEAD AN	ALYS	ST	:	K.	SCHMEC	KPEI	PER							
ASSESSMI	ENT	:												
		Fl	LIGH		RI	EDUN	IDANCY	SCR	EENS			CII		
	1	HDV	/FU	INC	A		E	3	. (2	-	-		
NASA IOA]	3	/3 /3]	[]]]	[]		[]	*
COMPARE	[/	1	ί]	Ţ]	[]		[3	
RECOMME	NDA!	ric	ons:	(If dif:	fere	ent fr	om N	ASA)					
* 	[/)	[]	[]	[]	(A	[DD/I] DELE	TE:
* CIL RI	ETEI	T	гои	RATI	ONALE:	(If	f appl	icab	Z	DEQU			j	
REMARKS	:								INF	DEQU	ATE	[J	

ASSESSME ASSESSME NASA FME	NT ID:	6/06/8 EPD&C- 05-6-2				NASA DATA: BASELINE [] NEW [X]						
SUBSYSTE MDAC ID:	M:	EPD&C 5329 RESIST	or,	5.1K	(1/4)	W (TO	MDM	OF3)	-			
LEAD ANA	LYST:	K. SCH	MECI	KPEPE	ER							
ASSESSME	NT:											
	CRITICAL FLIGH		Rİ	EDUND	ANCY	SCRE	ENS		CIL			
	HDW/FU		В		c		* 1 11	1.1				
NASA IOA	[3 /3]	[]	[]	[]	[] *		
COMPARE	[/]	[]	[]	[]	[]		
RECOMMEN	DATIONS:	(ÎÎ	difi	feren	nt fr	om NA	SĀ)					
	ţ ,,, /]	[]	[]	[[ADD/D] ELETE		
* CIL RE	TENTION	RATIONA	LE:	(If	appl	icabl	A	DEQUATE DEQUATE]		
REMARKS:							7111	X011II	L	1		

ASSESSME ASSESSME NASA FME						NASA DATA: BASELINE [] NEW [X]											
SUBSYSTEM: EPD&C MDAC ID: 5330 ITEM: DIODE, ISOLATI LEAD ANALYST: K. SCHMECKPEPE						CON	35	A	(TO		RETURN	FR	OM	P/1	L BAY)		
LEAD ANA	LYST	:	ĸ.	SCF	łMI	ECI	KPEPI	ER									
ASSESSME	NT:																
	CRIT	ICAL LIGH				RI	EDUNI	OAN	CY	SC	REE	NS	•		IL TEI	м	
	-	W/FU				A			В			¢					
NASA IOA	[3 [3	/1R /1R]		[F P]	[NA F]		[·]	[[X X] '	k .
COMPARE	[/]		[N]	[N]		[]	[]	
RECOMMEN	DATI	ons:		(If	d:	if:	fere	nt :	fro	m	NAS	A)					
	[/]		[]	[]		[] (] ADD	/D] ELE	ΓE)
* CIL RE									pli	.ca		7	DEQUATE		x]	
IOA CONC	UKD	MTIH	NA	DA)	3 C	CCCN	J•									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/04/87 EPD&C-5331 05-6-2208-	_	NASA DATA BASELINE NEW								
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5331 DIODE, ISC	OLATION 35A	(TO DC RETURN	FROM P/L BAY)							
LEAD ANALYST:	K. SCHMECE	KPEPER									
ASSESSMENT:											
CRITICALITY REDUNDANCY SCREENS CIL ITEM											
HDW/FU		В	С	11211							
NASA [3 /3 IOA [3 /3] [] []	[]	[] *							
COMPARE [/] [] []	[]	[]							
RECOMMENDATIONS:	(If dif	ferent from	NASA)								
1] [] []	[]	[] ADD/DELETE)							
* CIL RETENTION :	RATIONALE:	(If applic	able) ADEQUATE INADEQUATE	[]							

ASSESSME ASSESSME NASA FME	NT I	D:	EPD&C	-533			NASA DATA: BASELINE [] NEW [X]							
SUBSYSTE MDAC ID: ITEM:			EPD&C 5332 DIODE	, IS	OLATI	on 3	TO DO	RETURN	FROM	P/L	ВАУ			
LEAD ANA	LYST	:	K. SC	HMEC	KPEPI	ER								
ASSESSME	NT:													
		ICAL	ITY T	R	EDUNI	DANCY	SCR	EENS		CIL	M			
	HD	W/FU	NC				ВС							
NASA IOA	[3 [3	/3 /3]	[]]]	[[]	[[] *			
COMPARE	[/]	[]	[]	[]	[]			
RECOMMEN	DATI	ons:	(If	dif	ferer	nt fr	om N	AŠĀ)						
	[/	1	[]	[]	[] (2	[ADD/D		E)		
* CIL RE	TENT	ION 1	RATION	ALE:	(If	appl	icab	A	DEQUATE DEQUATE	-]	_		

ASSESSME ASSESSME NASA FME						NASA DATA: BASELINE [] NEW [X]								
SUBSYSTEM: EPD&C MDAC ID: 5333 ITEM: DIODE, ISOLATION					'ION	352	A (T	DC	RETURN	FROM	P/L	BAY)		
LEAD ANALYST: K. SCHMECKPEF						ER								
ASSESSME	NT:													
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM														
		A			В		C		111	M				
NASA IOA	[3	/1R /1R]		[F]	[[NA F]]	[P]	X]] *	
COMPARE	[/]	:	[N]	[N] .	[]	[]	
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* CIL RE	ONA.	LE:	(If	apı	pli	cable	A	DEQUATE DEQUATE	[X]				
REMARKS:	A'S	sc	REEN	ıs.					•	J				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-533	4 -1	NASA DATA: BASELINE NEW								
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5334 SWITCH, M										
LEAD ANALYST:	K. SCHMEC	KPEPER									
ASSESSMENT:											
CRITICALITY REDUNDANCY SCREENS CIL											
FLIGH HDW/FU		В	С	ITEM							
NASA [3 /1R IOA [3 /2R] [P] [NA]] [P]	[P] [P]	[] *							
COMPARE [/N] [] [N]	[]	[]							
RECOMMENDATIONS:	(If dif	ferent from NAS	SA)								
[/] [] []	[] (AI	[] DD/DELETE)							
* CIL RETENTION I	RATIONALE:	(If applicable	e) ADEQUATE INADEQUATE	[]							
IOA CONCURS WITH	NASA'S RE	EVALUATION AFTE	R FURTHER EX	KAMINATION OF							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5335		BASELINE [] NEW [X]						
	EPD&C 5335 SWITCH, MG	OTORIZED (F/C 3	B TO PAYLOAD	-					
LEAD ANALYST:	K. SCHMECI	KPEPER							
ASSESSMENT:									
CRITICAL FLIGH	T	EDUNDANCY SCREI		CIL ITEM					
HDW/FU	NC A	В	С						
NASA [2 /1R IOA [3 /3] [P] [NA]] []	[P] []	[X] *					
COMPARE [N /N] [N] [N]	[и]	[N]					
RECOMMENDATIONS:	(If dif	ferent from NAS	SA)						
[/] [] []	[] (A)	[DD/DELETE;					
* CIL RETENTION	RATIONALE:	(If applicable	e) ADEQUATE INADEQUATE	-					
REMARKS: IOA CONCURS WITH CONCERNS.	NASA AFTE	R LEARNING OF	THE FUEL CEL	L SAFING					

ASSESSMEN'					BASELINE	
NASA FMEA					NEW	וֹx
SUBSYSTEM		EPD&C				
MDAC ID:		5336	/OMODIA	ED /E/G 3		
ITEM:		SWITCH, F	MOTORIZ	ED (F/C 3	STRUCTURE 1	RETURN)
LEAD ANAL	YST:	K. SCHME	CKPEPER			
ASSESSMEN'	T:					
C			REDUNDA	NCY SCREE	1 S	CIL
	FLIGHT			_	_	ITEM
	HDW/FUN	ic ?	4	В	С	
NASA	[1 /1	1 r	1	Гі	r 1	гх 1 *
IOA	[2 /1R	jį	P j	[] [P]	Ρj	[X] * [X]
COMPARE	[N /N] [1	1]	[N]	[N]	[]
RECOMMEND	ATIONS:	(If dif	ferent	from NASA	A)	
_	[/] []	[]	[] (AI	[] DD/DELETE)
* CTI. PET	ENTION E	ATTONALE:	(Tf a	nnlicable		
·· CIL REI		dir romindi.	, (ppricable	ADEQUATE	
]	INADEQUATE	į
REMARKS:						
					FAILS OPEN"	- IOA
CONCURS W	TTH THE	NASA REEV	ALUTIO	N.		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5337	BASELINE [] NEW [X]							
	EPD&C 5337 SWITCH, MOTOR								
LEAD ANALYST:	K. SCHMECKPEP	ER							
ASSESSMENT:									
CRITICAL FLIGH		DANCY SCREENS	CIL ITEM						
HDW/FU		в с							
NASA [3 /3 IOA [2 /1R] [] :] [P]	[] [[P] [P] [x] *						
COMPARE [N /N] [N]	[N] [N] [N]						
RECOMMENDATIONS:	(If differe	ent from NASA)							
[/] []	[] [] [] (ADD/DELETE)						
* CIL RETENTION	RATIONALE: (If	A	DEQUATE [] DEQUATE []						
REMARKS: NASA HAS REDEFIN CONCURS WITH THE		E MODE TO "FAI	LS CLOSED" - IOA						

ASSESSME ASSESSME NASA FME	NT II):	EPD&C	38			NASA DATA: BASELINE [] NEW [X]							
SUBSYSTE MDAC ID: ITEM:			EPD&C 5338 SWITCH, MOTORIZED						N DC	BUS	с то	PA	YLOA	D)
LEAD ANA	LYST	:	K. SC	HME	CK	PEPER	ŧ							
ASSESSME	NT:													
		[CAL]	ITY F		RE	DUNDA	NC	Y SCR	EENS			CI:		
	HDV	/FUI	NC		A			В		С				
NASA IOA	[3 [3	/1R /2R]]	P P]]	[[NA] P]	[[P] P]		[]	*
COMPARE	[/N]	[]	[и]	[]		[]	
RECOMMEN	DATIC	ons:	(If	di	ffe	erent	f	rom N	ASA)					
	ţ,	/]	[•]	[]	[]	(A] DELE	TE)
* CIL RE	TENTI	ои і	RATION	ALE	:	(If a	pp	licab			JATE JATE	[]	
REMARKS:	URS W	HTIV	NASA A	AFT	ER	FURT	HE:	R ANA	LYSI	s.				

ASSESSME ASSESSME NASA FME	ENT 1	D:	EPD	4/87 &C-533 5-2141				. 1	NASA I BASEI		[x]	
SUBSYSTE MDAC ID:			EPD 5339 SWI		OTOR	RIZED	(MAI	N DC	BUS (с то	PA	YLOAD)	į
LEAD ANA	ALYST	r:	к.	SCHMEC	KPEF	ER							
ASSESSMI	ENT:												
		ricai FLIGH	ITY	R	EDUN	IDANCY	SCR	EENS			CI		
		W/FU		A		E	i		С			U.1	
NASA IOA	[3	3 /3]]]	[]	[]		[[] *] ·	
COMPARE	[/]	[]	[3	[]		[]	
RECOMME	NDAT:	cons:	. (If dif	fere	ent fr	om N	ASA)					
-	[/]	[]	[]	[]	(A	[DD/] DELETI	Ξ
* CIL R		rion	RATI	ONALE:	(If	appl	icab.		ADEQUA ADEQUA		[]	
REMARKS	:												

ASSESSME ASSESSME NASA FME SUBSYSTE	NT A #	ID: :	12/07/ EPD&C 05-6-:	-5340			NASA DATA: BASELINE [] NEW [X]						
MDAC ID: ITEM:		•	5340 RPC,	7.5A	(GS	E MAI	N C	OFF)					
LEAD ANA	LYS	T:	K. SC	HMEC	KPEP	ER							
ASSESSME	NT:												
		FLIGH	_								CI IT	L EM	
	H	DW/FU	NC	A		E	3	(C				
NASA IOA	[3 /3 3 /3]	[]	[]	[[]		[[]	*
COMPARE	[/]	[]	[]	[]		[]	
RECOMMEN	DAT	ions:	(If	dif	fere	nt fr	om N	ASA)					
-	(/	1	[3	[]	[]	(AD	[D/	DEL:	ETE)
* CIL RE	TEN'	TION :	RATION	ALE:	(If	appl	icab		ADEQUAT ADEQUAT		[]	
REMARKS:								-111 2	XOUI	_	ι	J	

ASSESSME ASSESSME NASA FME	NT I		EPD&	2/07/87 NASA DATA: PD&C-5341 BASELINE [] 5-6-2389-3 NEW [X]									
SUBSYSTEM MDAC ID:	M:		EPD&0 5341 RPC,	7.5A	(GS	E MAI	N C	OFF)					
LEAD ANA	LYST	:	K. S	CHMEC	KPEP	ER							
ASSESSME	NT:												
	CRIT	ICAL LIGH		R	EDUN	DANCY	SCR	EENS			CII		
	_	W/FU		A	-	. E	3 .	C					
NASA IOA	[3 [3	/3 /3]	[[]	[]	[]		[] *	
COMPARE	[/]	[]	[]	[]		[]	
RECOMMEN	DATI	ons:	(I	f dif	fere	nt fr	om N	ASA)					
_	[/	1	[]	[]	[]	(A)	[DD/1] DELETE)	
* CIL RE	TENT	NOI	RATIO	NALE:	(If	app]	licab	7	ADEQU ADEQU]]	
REMARKS:									-		•	-	

ASSESSMENT DATASSESSMENT ID:	•	5342		NASA DASEL		
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5342 RPC, 7	.5A (GSE	MAIN C	on)		
LEAD ANALYST:	K. SCH	MECKPEPE	R			
ASSESSMENT:						
	CALITY	REDUND	ANCY SCR	EENS	CIL	
	GHT FUNC	A .	В	C	ITEM	
NASA [3 /	′3] ′3]	[]			[] *	
COMPARE [/	']	[]	[]	[]	[]	
RECOMMENDATION	s: (If	differen	t from N	ASA)		
[/	']	[]	[]	[]	[] (ADD/DELETE	Ξ,
* CIL RETENTION REMARKS:	ON RATIONA	LE: (If	applicab	le) ADEQUA: INADEQUA:		

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	: 12/07/87 EPD&C-5343 05-6-2389-1	PD&C-5343 BASELINE []								
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5343 RPC, 7.5A (GS	E MAIN C	ON)							
LEAD ANALYST:	K. SCHMECKPEP	ER								
ASSESSMENT:										
CRITICA FLIC	ALITY REDUN	DANCY SCR	EENS	CIL ITEM						
HDW/I	TUNC A	В	С							
NASA [3 /: IOA [3 /:	R] [P]	[F] []	[P] []	[X] * []						
COMPARE [/	[и] [и	[N]	[N]	[N]						
RECOMMENDATIONS	: (If differe	nt from N	ASA)							
[/] []	[]	[]	[ADD/DELETE)						
* CIL RETENTION	N RATIONALE: (If	applicab								
			ADEQUATE INADEQUATE							
	TH NASA'S REEVAL VERING OF THE PR			S ABOUT						

ASSESSMEN ASSESSMEN NASA FME	NT II	D:		-534			TA: NE EW]				
SUBSYSTEM MDAC ID: ITEM:			EPD&C 5344 SWITC	H, M	OTORI	ZED	(GSE	PWR	CONTRO	L)			
LEAD ANA	LYST	:	K. SCI	HMEC	KPEPE	ER							
ASSESSMEN	T:												
Ó	F	LIGHT		RI	EDUNE	DANCY	SCRE	ENS			CIL		
	HD	W/FUI	NC	A		В		C	3				
NASA IOA	[3 [3	/3 /3]	[]	[]	[[]] []	*
COMPARE	[/]	[]	[]	[]		[]	
RECOMMENI	DATIC	SNC:	(If	dif	feren	nt fr	om NA	SA)					
-	[/]	[]	[]	[]	(AI	[D/D		TE)
* CIL RET	'ENT	ION F	RATION	ALE:	(If	appl	icabl	A	DEQUAT	E F	[]	
REMARKS:								7112	PPTONI	ت	ι	j	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5345	EPD&C-5345 BASELINE 05-6-2048-2 NEW									
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5345 SWITCH, MG	345 WITCH, MOTORIZED (GSE PWR CONTROL)									
LEAD ANALYST:	K. SCHMECI	KPEPER									
ASSESSMENT:											
CRITICAL FLIGH	T	EDUNDANCY			CIL ITEN	ſ					
. HDW/FU	NC A	B	C								
NASA [3 /1R IOA [3 /3] [P] [N	[A] [F	']	[] *]					
COMPARE [/N] [N] [N	, i	r]	[]					
RECOMMENDATIONS:	(If dif	ferent fr	om NASA)								
[/] [] [] [] (A	[DD/DI] ELETE)					
* CIL RETENTION	RATIONALE:	(If appl	P	ADEQUATE ADEQUATE	[]					
REMARKS: IOA CONCURS WITH	NASA AFTE	R FURTHER	EXAMINAT	TION OF T	HE C	IRCUIT.					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5346			[] [x]
	EPD&C 5346 FUSE, 200A TO	MAIN DC DIS	T ASSY 3	
LEAD ANALYST:	K. SCHMECKPE	PER		
ASSESSMENT:				
CRITICAL: FLIGHT	TY REDUI	NDANCY SCREEN	S	CIL ITEM
	NC A	В	С	IIEM
NASA [3 /1R IOA [2 /1R] [P]] [P]	[F] [[F] [P] F]	[X] * [X]
COMPARE [N /] []	[]	N]	[]
RECOMMENDATIONS:	(If differe	ent from NASA)	
[/] []	[] [] (AD	[DD/DELETE)
* CIL RETENTION I	RATIONALE: (If	applicable)		_ i
		I	ADEQUATE NADEQUATE	
REMARKS: IOA CONCURS WITH THE CIRCUIT. SCI		ALUATION AFT		ANALYSIS OF
THE CTUCOTI. PC	THER C DIFFE	SVENCT MVD V	LIFU.	

ASSESSMENT ID:	ASSESSMENT DATE: 12/15/87 ASSESSMENT ID: EPD&C-5347 NASA FMEA #: 05-6-2008C-1 NEW CONTROL OF THE PROPERTY O										
	EPD&C 5347 FUSE, 2007	A TO MAIN	DC DIST ASSY	3							
LEAD ANALYST:	K. SCHMEC	KPEPER									
ASSESSMENT:											
FLIG		EDUNDANCY		CIL ITEM							
HDW/F	INC A	В	С								
NASA [3 /1] IOA [2 /1]	R] [P] [F] [F] [P]] [F]	[X] * [X]							
COMPARE [N /] [] [] [N]	[]							
RECOMMENDATIONS	(If dif	ferent fr	om NASA)								
[/] [] [] []	[] (ADD/DELETE)							
* CIL RETENTION	RATIONALE:	(If appl	icable) ADEQUA INADEQUA								
REMARKS: IOA CONCURS WITTHE CIRCUIT. S			•	•							

ASSESSMI ASSESSMI NASA FMI	ENT	I	D:	EPD	6/87 &C-53 6-225									
SUBSYSTI MDAC ID: ITEM:				EPD 534 FUS		то	SE M	ONITO	R					
LEAD AND	ALY	ST	:	K.	SCHME	CKPEI	PER							
ASSESSMI	ENT	:												
		F	ICAI LIGH W/FU					Y SCR B		2		CII		
			•											
NASA IOA	[3	/3 /3]	[]	[]	[]		[]	*
COMPARE	[/]	[]]	[]		[]	
RECOMMEN	NDA'	TI	ons:	: (If di	ffere	ent f	rom N	ASA)					
	. [/]	[]	[]	[]	(A	[DD/I) DELE	TE)
* CIL RI	ETE)	NT:	ION	RATI	ONALE	: (If	app	licab	1	ADEQU ADEQU		[]	

REMARKS:

ASSESSMEN' ASSESSMEN' NASA FMEA SUBSYSTEM MDAC ID: ITEM:	T ID: #: :	EPD&C-5 05-6-23 EPD&C 5349	5349 350-1	NASA DATA: BASELINE [NEW [>						
LEAD ANAL	YST:	K. SCH	MECKPEPER	t						
ASSESSMEN	T:									
C	RITICAL FLIGH HDW/FU	r	REDUNDA A	NCY SO	CREENS		CII			
NASA IOA	[3 /3 [3 /3]	[]	[]	[]	[] *]		
COMPARE	[/]	[]	[]	[]	[]		
RECOMMEND	ATIONS:	(If o	different	from	NASA)					
	[/]	[]	[]	Į.] ([ADD/I] DELETE		
* CIL RET	ENTION	RATIONA	LE: (If a	applica	A	DEQUATE]		

ASSESSME ASSESSME NASA FME	NT A #	II :	D:	EPD&C 05-6-	C-5350 BASELINE [] -2354-1 NEW [X]							
SUBSYSTEMDAC ID:	M:			EPD&C 5350 RESIS		5.1	K 1/4	W (TC) GS	SE MONITO	R)	
LEAD ANA	LYS	T	:	K. SC	HMEC	KPEPI	ER					
ASSESSME	NT:											
•	CRI			ITY	R	EDUNI	DANCY	SCRE	ENS	5	CI	
	H		LIGH N/FU	NC	A		В	i		c	IT	rm -
NASA IOA	[3	/3 /3]	[]	[]	[]	[] *
COMPARE	[/]	[]	[]	[]	[]
RECOMMEN	DAT	'IC	ons:	(If	dif	fere	nt fr	om NA	SA)			
-	[!]	[]	[]	[] ([ADD/] DELETE)
* CIL RE	TEN	T]	ON 1	RATION	ALE:	(If	appl	icabl	•	ADEQUATE IADEQUATE	[]
REMARKS:											-	-

ASSESSME	SESSMENT DATE: 6/06/87 SESSMENT ID: EPD&C-5351 SA FMEA #: 05-6-2354-1 NASA DATA: BASELINE [NEW [E [(]	
SUBSYSTE MDAC ID: ITEM:	M:		EPD&C 5351 RESIS		5.1	K 1/41	r) r	O GSE	MONITO	R)		-
LEAD ANA	LYST	:	K. SC	HMEC	KPEP	ER		+ ,43 t 1 1				
ASSESSME	NT:		,									
		ICAL LIGH W/FU	T	R		DANCY B	SCR	REENS C		CII		
NASA IOA	[3	/3 /3]	[]	[]	[]	[[] *	
COMPARE	[/]	E]	[]	[]	Ľ]	
RECOMMEN	DATI	ons:	(If	dif	fere	nt fr	om N	IASA)				
	[/	1	[1	[]	[] ([ADD/I] DELET	E,
* CIL RE	TENT	'ION	RATION	IALE:	(If	appl	icak	A	DEQUATE	-]	

REMARKS:

ASSESSME ASSESSME NASA FME	NT I	D:	6/06/8 EPD&C 05-6-8	-5352	BASELII]
SUBSYSTE MDAC ID: ITEM:	M:		EPD&C 5352 RESIS	ror,	5.11	K 1/4	W (TO	MDI	M OF3)			
LEAD ANA	LYSI	: :	K. SC	HMECI	KPEPI	ER						
ASSESSME	NT:											
			ITY	RI	EDUNI	DANCY	SCRE	ENS			CIL ITEM	
FLIGHT HDW/FUNC A							ВС			,	TIEP	1
NASA IOA	[3	3 /3]	[[]	[]	[]		[] *
COMPARE	[/]	[]	(]	[3		[]
RECOMMEN	DATI	ons:	(If	dif	ferer	nt fr	om NA	SA)				
-	[/	1	[]	[]	[[D/DE] ELETE)
* CIL RE	TENT	ION :	RATION	ALE:	(If	appl	icabl	. 1	ADEQUATI ADEQUATI		[]
REMARKS:											-	•

ASSESSME ASSESSME NASA FME	NT ID:	NASA DATA: BASELINE [] NEW [X]								
SUBSYSTE MDAC ID:	M:	EPD&C 5353 RESISTOR	., 5.1	K 1/4	W (T	O MDN	4 OF3)			
LEAD ANA	LYST:	к. ѕснме	CKPEP	ER						
ASSESSME	NT:									
	CRITICAL FLIGH	T		DANCY					CII	
	HDW/FU	NC	A	E	3	(2			
NASA IOA	[3 /3] []]]	[]		[] *]
COMPARE	[/] []	[]	[]		[]
RECOMMEN	DATIONS:	(If di	ffere	nt fr	om N	ASA)				
	[/] []	[]	[]	(A	[DD/[] ELETE)
* CIL RE	TENTION	RATIONALE	: (If	appl	icab	7	ADEQUA ADEQUA]]

REMARKS:

ASSESSME ASSESSME NASA FME	NT	ID:		C-535				1	NASA DA BASELI N]	
SUBSYSTE MDAC ID:			EPD& 5354 RESI	C STOR,	1.2	K 2W							
LEAD ANA	LYS	T:	ĸ. s	CHMEC	KPEP	ER							
ASSESSME	NT:												
		TICAL FLIGH		R	EDUN	IDANCY	SCRE	ENS			IL TEM	ſ	
	H	DW/FU	NC	A	•	В		(C				
NASA IOA	[[3 /3 3 /3]	[[]	[]	[]]]] *	+
COMPARE	נ	/]	C]	[]	[]	[]	
RECOMMEN	DAT	ions:	(I	f dif	fere	nt fr	om NA	SA)					
	[/]	[)	[]	[]] (ADD] ELEI	ſE)
* CIL RE	TEN	TION	RATIO	NALE:	(If	appl	icabl	1	ADEQUAT]	
REMARKS:								INZ	ADEQUAT	E [J	

ASSESSME ASSESSME NASA FME	NT ID:	EPD	6/87 &C-5355 6-2334-				7	BASELINE NEV		x]	
SUBSYSTE MDAC ID:	M:	EPD 535 RES		2K 1	L/4W	(TO (C&W)				
LEAD ANA	LYST:	K.	SCHMECH	KPEPI	ER						
ASSESSME	NT:										
		CALITY IGHT	RI	EDUNI	DANCY	SCR	EENS		CI: IT:		
		/FUNC	A		E	}	(2			
NASA IOA	[3 ,	/3] /3]	[]	[]	[[]	[[]	*
COMPARE	[,	/]	Ţ.]	[]	[]	[]	
RECOMMEN	DATIO	NS: (If dif	fere	nt fr	om N	ASA)				
- •	[, , , , , ,	/]	Ţ]	[]	[] (2	[ADD/	DELE	TE
* CIL RE	TENTI	ON RATI	ONALE:	(If	app]	icab	1	ADEQUATE]	
REMARKS:							IN	ADEQUATE	[]	

ASSESSME NASA FME	NT I	ID:	EPD&C 05-6-	-535				r	BASELI N]	
SUBSYSTE MDAC ID: ITEM:	M:		EPD&C 5356 RESIS		14K	1/4W	(TO	C&W)	l				
LEAD ANA	LYS	r:	K. SC	HMEC	KPEP	ER							
ASSESSME	NT:												
		rical: Fligh		R	EDUN	DANCY	SCRE	EENS			IL TEN	ď	
		OW/FU		A		В		(2	•	1 11	•	
NASA IOA	[3	3 /3 3 /3]	[]	[]	[]	[] '	k
COMPARE	[/]	[]	[]	[]	[]	
RECOMMEN	DATI	cons:	(If	dif	fere	nt fr	om NA	SA)					
	[,	/]	[]	[]	. [1] (ADD	/DI] ELE1	ľE)
* CIL RE	TENT	TION 1	RATION	ALE:	(If	appl	icabl	A	DEQUAT	E []	*
REMARKS:										- L		,	

ASSESSMENT DATE: ASSESSMENT ID:		NASA DATA BASELINE	[]
NASA FMEA #:	05-6-2345C-1	NEW	[X]
MDAC ID:	EPD&C 5357 SHUNT, DC AMMETER	R (TO F/C 3)	
LEAD ANALYST:	K. SCHMECKPEPER		
ASSESSMENT:			
CRITICAL		CY SCREENS	CIL ITEM
FLIGH HDW/FU		ВС	IIEM
NASA [2 /1R IOA [2 /1R] [P] [] [P] [P] [P] P] [P]	[X] * [X]
COMPARE [/] [] [] []]
RECOMMENDATIONS:	(If different	from NASA)	•
] [] [] [] (A	[] DD/DELETE)
* CIL RETENTION	RATIONALE: (If app	plicable) ADEQUATE INADEQUATE	
REMARKS: IOA AGREES WITH TO HELIUM BLOWDO DUMP.	NASA THAT THIS FA WN VALVES FAILURE	INADEQUATE ILURE IS 1/1 FOR RT AND PROBLEMS WITH	LS ABORT DUE

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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5358		NASA DATA: BASELINE [] NEW [X]						
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5358 FUSE, 200A T	O APCA-6							
LEAD ANALYST:	K. SCHMECKPE	PER							
ASSESSMENT:	•			t julija i					
CRITICAL: FLIGHT	ITY REDU	NDANCY SCREE	NS	CIL ITEM					
HDW/FU		В	c	IIEM					
NASA [3 /1R IOA [2 /1R] [P]] [P]	[F] [F]	[P] [F]	[X] *					
COMPARE [N /	j _ []	[]	[иј]					
RECOMMENDATIONS:	(If differ	ent from NAS	A) .						
] []	[]	[] (A)	[] DD/DELETE)					
* CIL RETENTION I	RATIONALE: (I) ADEQUATE INADEQUATE	[X]					
IOA CONCURS WITH THE CIRCUIT. SCI	THE NASA REE REEN "C" DIFF	VALUATION AFTERENCE WAS A	TER FURTHER	ANALYSIS OF					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/15/87 EPD&C-5359 05-6-20080			ASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5359 FUSE, 2002	A TO APCA	-6		en en en en en en en en en en en en en e
LEAD ANALYST:	K. SCHMEC	KPEPER			
ASSESSMENT:					
CRITICAI FLIGH		EDUNDANCY	SCREENS		CIL ITEM
HDW/FU		В	C		
NASA [3 /1F IOA [2 /1F	[P] [F] [F] [P]	[X] * [X]
COMPARE [N /] [] [] [N]	[]
RECOMMENDATIONS:	(If dif	ferent fr	om NASA)		
[/] [] [] [] (A)	[] DD/DELETE)
* CIL RETENTION	RATIONALE:	(If appl	icable)	DEQUATE	r v 1
				DEQUATE	[X]
REMARKS: IOA CONCURS WITH THE CIRCUIT. SO		REEVALUAT IFFERENCE			ANALYSIS OF

ASSESSMI ASSESSMI NASA FMI	ENT	I	D:	EPI	06/87 0&C-536 -6-2255				1	NASA BASE		[x]	
SUBSYSTEMDAC ID				EPI 536 FUS		TO I	IPCA-3	3, FF	PCA-3	, APC	A- 6			
LEAD AN	ALY	ST	:	K.	SCHME	KPE	PER							
ASSESSM	ENT	:												
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	•			NASA DATA BASELINE NEW	
	EPD&C 5361 FUSE, 2002	A TO DC	TIE BUS	:	
LEAD ANALYST:	K. SCHMEC	KPEPER			
ASSESSMENT:					
	ITY R	EDUNDAN	CY SCREE	ns	CIL ITEM
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SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5362 FUSE,	200A	TO D	с т	Œ BUS	-					
LEAD ANALYS	r:	K. SCH	MECK	PEPER								
ASSESSMENT:												
1	PICALI FLIGHT	!		DUNDA		SCREE	NS C		CIL			
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LEAD ANA	LYS	T	:	K.	SCI	HMEC	KPEP	ER							
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REMARKS: THIS COM POINT. CONCURS.	POI THI	NE: ER:	NT H EFOR	ias Re n	NO ASA	CONN	ECTI NOT	ON TO	FL UDE	IGHT I	HARDW N THE	ARE IR F	OR I	s.	TEST IOA

ASSESSMENT ASSESSMENT NASA FMEA	ID:		5364					ASA DATA BASELINE NEW		
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5364 FUSE, 2	20 A	TO ES	s Bu	JS 3AE	3		-	
LEAD ANALY	ST:	K. SCH	IECK	PEPER	Ł					
ASSESSMENT	7:									
CR	RITICAL: FLIGHT		RE	DÚNDA	NCY	SCREE	ens		CIL	
	HDW/FUI		A		В		С			-
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REMARKS:	טר שדיש	NACAIC	SCD	FFN II	ВH			22401112		J

ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5365 NASA FMEA #: 05-6-2270-1								1	NASA DAT BASELIN NE		x]
SUBSYSTE MDAC ID:	M:		EPD& 5365 FUSE		TO D	c voi	TMET	ER			
LEAD ANA	LYST	:	K. S	CHME	CKPEP	ER					
ASSESSME	NT:										
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	_	LIGH W/FU		2	A ·	E	} ·*	(C	1.	LIM
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SUBSYSTEM MDAC ID: ITEM:		EPD&C 5366 FUSE, 3	BA TO DC	VOLTMET	ER			
LEAD ANAL	YST:	K. SCHM	ECKPEPE	2				
ASSESSMEN	T:						<i>:</i> =	
C	RITICALI FLIGHT	ľ	REDUNDA	NCY SCE			CIL	ſ
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REMARKS:					THAD	-Zouth	L	J

ASSESSMENT DATE: 1/01/88 ASSESSMENT ID: EPD&C-5367 NASA FMEA #: 05-6-2241-1																DAT ELIN NE	Œ]	
SUBSYSTEM MDAC ID:				53		T	ВІ	REAKE	ER,	,	5 <i>A</i>	тн	IERM	AL	(M2	AIN	С	co	NT:	R)	
LEAD ANA	LYS	T:		ĸ.	SCF	IMI	ECI	KPEPE	ER												
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SUBSYSTE MDAC ID:	M:		EPD&C 5368 CIRCU	IT B	REAKE	R, 5	A THE	RMAL	(MAIN	С	CON	TR)	
LEAD ANA	LYST	:	K. SCI	HMEC	KPEPE	R							
ASSESSME	NT:												
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COMPARE	[/]	[3	[]	[]		[]	
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REMARKS:								THU	PHQUAL	_	Ĺ	1	

ASSESSMENT DATE: 12/05/ ASSESSMENT ID: EPD&C- NASA FMEA #: 05-6-2							•53	69	.1							SA DA' BASELII N		[]		
SUBSYSTEM MDAC ID:					53	D&C 69 ITCH	Ι,	тc	GGLE	SI	PDI	. (MA]	ΕN	BU	S TIE	C))				
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* CIL RE	TE:	NT.	IO	N 1	RAT	MOI	AL	E:	(If	ap)	pl	Lca	abl			EQUAT		[]		
REMARKS: NASA HAS IN "OFF" IS A STA	R P	os	IT	IO	N.	IO	S I	FA: COI	LURE	M W	ODI ITI	E A	AS: NAS	F/ A':	AII S I	LS OPE REEVAL	N, UA'	FZ TI	AI:	LS A:	CLA S TI	OSED HIS

ASSESSMENT ASSESSMENT NASA FMEA	ID:	12/05/ EPD&C- 05-6-2	5369		NASA DATA: BASELINE [] NEW [X]									
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5369 SWITCH	, TC	GGLE	SPDT	(MAIN	I BUS	TIE C)					
LEAD ANALY	ST:	K. SCH	MECH	(PEPEF	2							ē		
ASSESSMENT	:													
	ITICALI FLIGHT	ľ	RE A	EDUNDA	NCY :	SCREEN	rs C		CI IT	L EM				
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REMARKS:														

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-53	70		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5370 SWITCH,	TOGGLE S	PDT (MAI	N BUS TIE C)
LEAD ANALYST:	K. SCHME	CKPEPER			
ASSESSMENT:					
CRITICAI FLIGH	LITY :	REDUNDAN	CY SCREE	ENS	CIL ITEM
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COMPARE [N /] [] [и ј	[]	[N]
RECOMMENDATIONS	(If di	fferent	from NAS	SA)	
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* CIL RETENTION	RATIONALE	: (If ap	plicable	adequate INADEQUATE	
REMARKS: NASA HAS REDEFINED POSITION, SHORT: REEVALUATION.				FAILS CLOSE	D IN "ON"

ASSESSMENT ID NASA FMEA #:	EPD&C-53 05-6-221	71 1-1	BASELINE [] NEW [X]							
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5371 SWITCH,	TOGGLE DI		N BUS C)	.1.70177103					
LEAD ANALYST:	K. SCHME	CKPEPER	rum est de la companya de la company							
ASSESSMENT:										
	CALITY IGHT	REDUNDANC	SCREENS		CIL ITEM					
		A	В	c						
NASA [2 , IOA [3 ,	/1R] [/1R] [P] [P] [NA] [P] [P] P]	[X] * []					
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[/	/] [) [] [] (AD	[] DD/DELETE)					
* CIL RETENTIO	ON RATIONALE	: (If app	•	ADEQUATE NADEQUATE	[X]					
REMARKS: NASA HAS REDEI "OFF", SHORTS NASA'S REEVAL	TO GROUND,	FAILS CLO	SED IN "C	ON". IOA C	ONCURS WITH					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5372	NASA DATA BASELINI NEV									
	EPD&C 5372 SWITCH, TOGGLE	DPDT (FC/MN BUS C)									
LEAD ANALYST:	K. SCHMECKPEPE	R	•								
ASSESSMENT:											
FLIGH			CIL ITEM								
HDW/FU	NC A	ВС									
NASA [2 /1R IOA [3 /1R	[P] [P]	[P] [P] [P]	[X] *								
COMPARE [N /] []	[] []	[N]								
RECOMMENDATIONS:	(If differen	t from NASA)									
] []	[] []	[ADD/DELETE)								
* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE []											
REMARKS: NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS CLOSED IN "OFF" POSITION. IOA CONCURS WITH NASA'S REEVALUATION AND AGREES THAT THIS FAILURE IS CRIT 1 DURING INTACT ABORT.											

ASSESSMEN ASSESSMEN NASA FMEZ	NT ID:	EPD&C-53	73		NASA DATA: BASELINE [] NEW [X]					
SUBSYSTEM MDAC ID:		EPD&C 5373 SWITCH,	TOGGLE	SPDT (PA	YLOAD AFT MN	C)				
LEAD ANAI	LYST:	K. SCHME	CKPEPER		•					
ASSESSMEN	NT:									
C	CRITICAL FLIGH	ITY T	REDUNDA	NCY SCRE	ENS	CIL ITEM				
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NASA IOA	[3 /2R [3 /2R] [P] P]	[P] [P]	[P] [P]	* []				
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RECOMMENI	DATIONS:	(If di	fferent	from NA	SA)					
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* CIL RET		RATIONALE	: (If a	pplicable	e) ADEQUATE INADEQUATE					
	REDEFIN				FAILS TO TR	ANSFER, FAILS				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-53	73A	NASA DATA: BASELINE [] NEW [X]									
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5373 SWITCH,	TOGGLE S	SPDT (PAY)	LOAD AFT MN	C)							
LEAD ANALYST:	K. SCHME	CKPEPER										
ASSESSMENT:												
CRITICAL FLIGH	NS	CIL ITEM										
HDW/FU		A	В	С								
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SUBSYSTI MDAC ID: ITEM:			EPD&C 5374 SWITCH	Η,	TC	GGL	æ :	SF	ים מסי	r (P	AYL	DAI	O AF	T MN	c)		
LEAD ANA	ALYST:		K. SCI	IMI	ECF	(PEP	ER	1		7 7. QA	diami,		.:	£ .		• •	đa
ASSESSMI	ENT:																
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SUBSYSTEMDAC ID:	M:		EPD&C 5375 RELAY	(T	0	AFT	PA	YL	DAD I	3US)						
LEAD ANA	LYST	:	K, SC	HME	CK	PEPE	ER										
ASSESSME	NT:																
		ICAL: LIGH' N/FUI	r		RE A	EDUNI	DAN	CY B	SCRI	EEN	s C		٠	CI	L EM		
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ASSESSME ASSESSME NASA FME	NT	ID:	EPD	6/87 &C-537 6-2392	376 BASELINE						[k]
SUBSYSTE MDAC ID:			EPD 537 REL) AFT	r PAYL	OAD	BUS)				
LEAD ANA	LYS	ST:	K.	SCHME	CKPEI	PER						
ASSESSME	NT	:										
		ITICA FLIC HDW/F			REDUN	idancy B		REENS	:		CII	
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REMARKS:

ASSESSMENT ID: E	5/06/87 EPD&C-5377 05-6-2288-1	377 BASELINE [
MDAC ID: 5	EPD&C 5377 FUSE, 80A TO AFT P/L MN (c					
LEAD ANALYST: K	C. SCHMECKPEPER						
ASSESSMENT:							
CRITICALIT FLIGHT	redundancy screen	NS	CIL ITEM				
HDW/FUNC	C A B	С					
NASA [3 /2R] IOA [3 /2R]	[P] [P]] [P] [F]	[P] [P]	[x]				
COMPARE [/]] [] [N]	[]	[N]				
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REMARKS: IOA CONCURS WITH N	NASA'S SCREEN "B".						

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LEAD ANA	LY	ST	:	K.	SC	HMEC	KPEP	ER							
ASSESSME	NT	:													
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SUBSYSTE MDAC ID: ITEM:	M:		EPD& 5379 RPC,		(DC	: TIE	BUS 1	MAIN	C)			
LEAD ANA	LYST	:	K. S	CHMEC	KPEF	ER						
ASSESSME	NT:											
	CRIT	ICAI LIGH		R	EDUN	IDANCY	SCR	EENS		CI		-
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REMARKS:								7111	.IDDZO111	_ [J	

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ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #:	EPD&C-538		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5380 RPC, 7.5A	(DC TIE BUS MA	AIN C)	
LEAD ANALYST:	K. SCHMECI	KPEPER		
ASSESSMENT:				
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REMARKS: IOA CONCURS WIT CONCERNS.	TH NASA'S REI	EVALUATION DUE		

ASSESSMEN ASSESSMEN NASA FME	NT ID:	6/06/ EPD&C 05-6-	-538					ASA D BASEL	INE	: []	
SUBSYSTEM MDAC ID:	M:	EPD&C 5381 RPC,		(DC	TIE	BÜS 1	MAIN	C)				
LEAD ANA	LYST:	K. sc	HMEC	KPEP	ER	hear r.		•	ar I	TARTY.	fu nom t	
ASSESSME	NT:											
(CRITICAL		R	EDUN	DANCY	SCR	EENS			CIL		
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COMPARE	[/]	[]	[]	[]		[]	
RECOMMEN	DATIONS	: (If	dif	fere	nt fr	om N	ASA)					
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RECOMMEN	[/ TENTION]	dif	fere	[]	[le)] ADEQUA	ATE	[DD/[[[] DELETE	2)

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:_		NASA DATA: BASELINE [] NEW [X]							
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5382 RPC, 7.5A (DC	TIE BUS MAIN C)							
LEAD ANALYST:	K. SCHMECKPEP	ER							
ASSESSMENT:									
CRITICA FLIC		DANCY SCREENS	CIL ITEM						
	UNC A	ВС	TILH						
NASA [3 /1 IOA [3 /3		[NA] [P] [] []	[] *						
COMPARE [/N	[и]	[N] [N]	[]						
RECOMMENDATIONS	: (If differe	nt from NASA)	er en en en en en en en en en en en en en						
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* CIL RETENTION	RATIONALE: (If		<u>.</u> <u>.</u>						
		ADEQUATI INADEQUATI	• •						
		UATION DUE TO THIS FA PREFLIGHT TEST BUS WO							

ASSESSME	ESSMENT DATE: 6/13/87 ESSMENT ID: EPD&C-5383 A FMEA #: 05-6-2387A-2								ASA DA' BASELII N		[]
SUBSYSTE MDAC ID:			EPD&0 5383 RPC,		A (MA	IN DC	BUS	C F/	C PWR)			
LEAD ANA	LYST	:	K. S	CHME	CKPEP	ER						
ASSESSMI	ENT:											
	CRIT			Í	REDUN	DANCY	SCR	EENS			CII	
	_	LIGH W/FU		2	A	В	в с			111	2 71	
NASA IOA	[3	/3]	[]	[]]]		[] *
COMPARE	[/]	[]	[]	[]		[]
RECOMME	NDATI	ONS:	(I	f di	ffere	ent fr	om N	ASA)				
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* CIL R	ETENT	NOI!	RATIO	NALE	: (If	appl	icab	7	ADEQUAT ADEQUAT		[]

REMARKS:

ASSESSMENT DASSESSMENT II NASA FMEA #:	D: EPD&C	-5384		NASA DA' BASELII N	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5384 RPC,	7.5A (MA	IN DC BUS	C F/C PWR)	
LEAD ANALYST	K. SCI	НЕСКРЕРІ	ER		
ASSESSMENT:					
F	ICALITY LIGHT W/FUNC	REDUNI	DANCY SCRE	eens C	CIL ITEM
	•		_	-	
NASA [3 IOA [3	/1R] /3]	[P] []	[NA] []	[P] []	[] *
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* CIL RETENT	ION RATIONA	ALE: (If	applicabl	ADEQUATE	E []
REMARKS: IOA CONCURS V CONCERNS.	WITH NASA'S	S REEVALU	JATION DUE	INADEQUATE TO FUEL CE	

ASSESSME ASSESSME NASA FME	NT ID:	6/13/ EPD&C 05-6-	-538			NASA DATA: BASELINE [] NEW []						
SUBSYSTE MDAC ID:	M:	EPD&C 5385 RPC,		(MA	IN DO	BUS	C F	/C PWR)				
LEAD ANA	LYST:	K. SC	HMEC	KPEP	ER	·		.e		-		
ASSESSME	NT:											
	CRITICAL FLIG		R	EDUN	DANCY	SCRI	EENS			CIL		
		JNC	A		F	в с					•	
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* CIL RE	TENTION	RATION	IALE:	(If	appl	licab		ADEQUAT ADEQUAT		[]	
REMARKS:												

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5386	NASA DATA: BASELINE NEW							
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5386 RPC, 7.5A (MAIN DC	BUS C F/C PWR)							
LEAD ANALYST:	K. SCHMECKPEPER								
ASSESSMENT:									
CRITICAL		CIL							
FLIGH HDW/FU		c	ITEM						
NASA [3 /1R IOA [3 /3		[P]] []	[] *						
COMPARE [/N] [й] [и] [N]	[]						
RECOMMENDATIONS:	(If different from	m NASA)							
[/] [] [[] D/DELETE)						
* CIL RETENTION	RATIONALE: (If applie	·	_						
· ·		ADEQUATE INADEQUATE	[] []						
REMARKS: IOA CONCURS WITH NASA'S REEVALUATION DUE TO THIS FAILURE ALONG									
WITH INADVERTENT A MAIN DC BUS FRO	WITH INADVERTENT POWER ON THE PREFLIGHT TEST BUS WOULD DISCONNECT A MAIN DC BUS FROM THE FUEL CELL. IF A BUS TIE COULD NOT BE PERFORMED THE BUS WOULD BE LOST.								

ASSESSME ASSESSME NASA FME	NT ID:	6/04/8 EPD&C- 05-6-2	5387				Ŋ	IASA DA BASELI N	NE		-
SUBSYSTE MDAC ID:		EPD&C 5387 DIODE,	ISO	LATI	ON 35	5 A					
LEAD ANA	LYST:	K. SCH	MECK	PEPE	Ŕ	·					
ASSESSME	NT:										
	CRITICAL FLIGH		RE	:DUND	ANCY	SCREE	ens			CIL	
	HDW/FU		A		В		(, -
NASA IOA	[3 /3 [3 /3]] []	[]]]		[] *
COMPARE	[/]	[]	[]	[]		[]
RECOMMEN	DATIONS:	(If	diff	eren	t fro	om NAS	SA)				
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* CIL RE	TENTION	RATIONA	LE:	(If	appl:	icable	7	ADEQUAT ADEQUAT		[]
REMARKS:										-	Ţ.

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SUBSYSTEM MDAC ID:	M:			53	PD&C 887 IODE	, :	IS	OLAT:	ION	1 3	85A							
LEAD ANA	LYS	ST	:	K	SCI	IM.	EC	KPEPI	ER									
ASSESSME	NT:	:																
•		F	ICAL LIGH W/FU	Г	Z		RI A	EDUNI	DAN	ICY E	SCR	REEN	s c			CIL		
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COMPARE	[/]		[]	[•]	[J		[]	
RECOMMEN	DA'I	rio	ons:		(If	d:	ifi	ferer	nt	fr	om N	ASA)					
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REMARKS:														z. v.		L	J	

ASSESSMEN ASSESSMEN NASA FME	NT ID:	: 6/19/8 EPD&C- 05-6-2	5388						_	ASA DATA BASELINE NEW		[
SUBSYSTEMDAC ID:	M:	EPD&C 5388 DIODE,	ISC	OLATI	ON	35	A				•		
LEAD ANA	LYST:	к. ѕсн	MECI	KPEPE	R								
ASSESSME	NT:												
	CRITICA FLIC		Ŕ	EDUND	ANG	CY	SCR	EENS	•		CII		
	HDW/F		A			В			С				
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COMPARE	[/1]	[N]	[N]	[N]	[]	
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ASSESSME ASSESSME NASA FME	NT I	D:	6/19/6 EPD&C- 05-6-3	-53								ASA DATA BASELINE NEW	[[
SUBSYSTE MDAC ID: ITEM:			EPD&C 5389 DIODE	, 1	sc	OLATI	ON	35	5 A						٠.
LEAD ANA	LYST	:	K. SC	HME	CI	KPEPE	ER							. =1 .	
ASSESSME	NT:														
	CRIT:				RI	EDUNE	ANO	CY	SCRE	EN:	S		CII		
	_	LIGHT W/FUI	IC I		A			В			С		ITE	.M	
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	[/]	[]	Ţ]	[] (A	[DD/I] ELF	ETE)
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REMARKS: IOA CONC OF THE P						o co	NCI	ERN	S AB	יטס:	r]	(NADVERT)	ENT	POW	VERING

ASSESSME ASSESSME NASA FME	NT I		EPD	/87 C-539 5-2207					NASA DA' BASELI N		x]	
SUBSYSTE MDAC ID:	M:		EPD& 5390 DIOI		OLAT	ION 3	5 A	: 1227 °	er er e		z	
LEAD ANA	LYST	:	K. 5	CHMEC	KPEP	ER						
ASSESSME	NT:											
	CRIT	ICAI LIGH		. . .	EDUN	IDANCY	SCR	EENS		CI I'l	L TEM	
	_	W/FU		A		E	3	(C			
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COMPARE	[/]	[]	[]	[]	Ţ]	
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SUBSYSTEM:		-3	253	NASA DATA BASELINE NEW]
LEAD ANALYST:	1.			. F		
ASSESSMENT:						
CRITICAL FLIGH HDW/FU	T		CY SCREE	C	CIL	1
NASA [3 /1R IOA [3 /1R] [P] [NA] NA]	[P]	[] *
COMPARE [/] [] []	[]	[]
RECOMMENDATIONS:	(If dif	ferent f	from NAS	(A)	··	70
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* CIL RETENTION	RATIONALE:	(If app) ADEQUATE INADEQUATE	[]
REMARKS:				~	•	•

ASSESSMEN ASSESSMEN NASA FME	NT ID:	6/04/8 EPD&C- 05-6-2	-5391					ASA DA' BASELI N	NE		
SUBSYSTEMDAC ID:	M:	EPD&C 5391 DIODE,	iso	LATI	ON 3	5 A					
LEAD ANA	LYST:	K. SCH	IMECH	KPEPE	R						
ASSESSME	NT:										
	CRITICAL FLIGH		RI	EDUND	ANCY	SCRE	ENS	•		CIL	
	HDW/FU		A		В		C	:			
NASA IOA	[3 /3 [3 /3]	[]	[[]	[]] *]
COMPARE	[/]	[]	[]	[]		[]
RECOMMEN	DATIONS:	(If	dif	feren	nt fr	om NA	SA)				
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* CIL RE	TENTION	RATION	ALE:	(If	appl	icabl	7	\DEQUAT		[j
REMARKS:							INZ	ADEQUAT	Έ	Ī]

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SUBSYSTE MDAC ID: ITEM:				53	PD&C 891 CODE	, :	ıso	OLAT	!IOI	N :	35A		2	-					= .	
LEAD ANA	LYS	ST	:	K.	SCI	HMI	ECI	KPEP	ER				2							
ASSESSME	NT:	:																		
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	F	IDV	/FUI	NC.			A			1	3		C	<u>.</u>	7	į ·				
NASA IOA	[3 3	/1R /1R]]	P P]		[] []	NA] NA]	[P P]			[]]	*	
COMPARE	[/]		(]	1	[]	[]			[)		
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	[/]		[]	i	[]	[]		(AÏ	[)D/	DEL	ETE	:)
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REMARKS:														X	V4111	_	١.	. J	v	÷

ASSESSME ASSESSME NASA FME	NT ID:	EPD&C	/87 2-5392 -2207-2		nasa dat Baselin Ni		K.]
SUBSYSTE MDAC ID:	M:	EPD&C 5392 DIODE	: E, ISOLAT	ION 35A	•		
LEAD ANA	LYST:	K. SC	СНМЕСКРЕР	ER			
ASSESSME	NT:						
	CRITICA FLIG	HT	REDUN	IDANCY SCR		CI IT	
	HDW/F	UNC	A	· B	C		
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COMPARE	[/N]	[N]	[N]	[N]	[1.
RECOMMEN	DATIONS	: (If	f differe	ent from N	(ASA)		
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* CIL RE	TENTION	RATION	NALE: (If	applicab	ole) ADEQUATI INADEQUATI	-]
REMARKS: IOA CONC OF THE P			DUE TO O	CONCERNS A	BOUT INADVE	RTENT	POWERING

ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #:	EPD&C-5393	2	NASA DATA: BASELINE NEW	• •
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5393 DIODE, ISO	LATION 35A		
LEAD ANALYST:	K. SCHMECK	PEPER		
ASSESSMENT:				
	ALITY RE	DUNDANCY SCREENS		CIL ITEM
	FUNC A	В	c	LIEM
NASA [3 / IOA [3 /	1R] [P 3] [] [NA] [] [] [P] [* [] * []
COMPARE [/	и] [и] [N][и] [[]
RECOMMENDATION	s: (If diff	erent from NASA)		
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* CIL RETENTIO	N RATIONALE:	(If applicable)	ADEQUATE	r 1
DEMA DEC.			ADEQUATE	[]
REMARKS: IOA CONCURS WI OF THE PREFLIG		O CONCERNS ABOUT	INADVERTE	NT POWERING

ASSESSME	ASSESSMENT DATE: 6/19/87 ASSESSMENT ID: EPD&C-5394 NASA FMEA #: 05-6-2207-1										_	ASA DA BASELI N		[x]	
SUBSYSTE MDAC ID:	M:		EPD8 5394 DIOI	ļ	IS	DLAI	NOI	35	Α								
LEAD ANA	LYST	:	к. 5	CHM	EC	KPEF	PER										
ASSESSME	NT:																
	F	ICAL LIGH W/FU			R:		IDAN(CY B	SCR	EENS	S C				IL TEM	1	
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COMPARE	[/N]	[N]	[N]	[N]		[]	
RECOMMEN	DATI	ons:	(:	If d	lif	fere	ent	fro	om N	IASA))						
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* CIL RE		'ION	RATI(IANC	E:	(Ii	f ap	pl:	icak			DEQUA'		_]	
IOA CONC		WITH	NAS	A DU	JΕ	TO I	FUEL	CI	ELL	SAF	IN	G CON	CER	NS	•		

ASSESSMEN	T DATE:	7/01/8	7				N	ASA DAT	ΓA:	
ASSESSMEN NASA FMEA		EPD&C- 05-6-2						BASELII NI	NE [x]
SUBSYSTEM MDAC ID: ITEM:		EPD&C 5394 DIODE,	ISC) <u>L</u> ATI	ои з	5 A				
LEAD ANAL	YST:	к. сн	MECK	(PEPE	R					• •
ASSESSMEN	T:									
c	RITICAL FLIGHT HDW/FU	r	RE A	DUND	ANCY B	SCREI	ens C		CI	L PEM
NASA IOA	[3 /1R [3 /1R]	[P]	[N.	A] A]	[P]	[[] *
COMPARE	[/]	[]	[]	[]	[1
RECOMMEND	ATIONS:	(If o	diff	eren	t fr	om NAS	SA)			-
	[/]	[]	[]	[[ADD/] 'DELETE
* CIL RET	ENTION F	RATIONA	LE:	(If a	appl	icable	A	DEQUATE DEQUATE	•]

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/07/87 EPD&C-5395 05-6-2278-1		ASA DATA: BASELINE [] NEW [X]
	EPD&C 5395 FUSE, 35A	• •	
LEAD ANALYST:	K. SCHMECKPE	PER	
ASSESSMENT:			
CRITICAI FLIGH HDW/FU	T	NDANCY SCREENS B C	CIL ITEM
nDW/rc	INC A	Б	
NASA [2 /1F IOA [3 /1F		[F] [P [F] [P] [x] *
COMPARE [N /] []	[] [] []
RECOMMENDATIONS:	(If differ	ent from NASA)	
] []	[] [[] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (I	A)	DEQUATE [X]
REMARKS: IOA CONCURS WITH INFORMATION ABOU	I NASA'S REEVA JT EMERGENCY F	LUATION DUE TO	DEQUATE [] AFTER LEARNING MORE

ASSESSMI ASSESSMI NASA FMI	ENT	I		EI	PD&C	-53	39							ASA DA BASELI N		[x]	
SUBSYSTIMDAC ID:				53	PD&C 396 JSE,	3!	5 A												
LEAD AND	LY	ST	:	ĸ.	. sc	HMI	EC]	KPEP	ER										
ASSESSMI	ENT	:															ŧ.,	2.7	
	CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM																		
]		W/FU				A			В			С			17	rer	1	
NASA IOA	_		/1R /1R]	P P]	[F F]	 	P]		[X X]	*
COMPARE	[N	/]		[]	[]	ı]		[)	
RECOMMEN	IDA'	ri	ons:		(If	di	fi	fere	nt :	fro	om N	AS#	١)						
	[/]		[]	[]	[•]	(AI		/DE] ELE:	ΓE)
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DEWI DYC.												1		DEQUAT DEQUAT		[Х]	
REMARKS: IOA CONC	UR											E 1	:O 2	AFTER	LEA	RN	IIN	iG I	MORE

ASSESSMEN ASSESSMEN NASA FME	NT ID:	1/01/88 EPD&C-53 NEW # UN					ASA DA BASELI N		; [x]	
SUBSYSTEM MDAC ID:	M:	EPD&C 5397 FUSE, 52	A TO R	JDA							
LEAD ANA	LYST:	K. SCHMI	ECKPEPI	ER							
ASSESSME	NT:										
	CRITICAL FLIGH		REDUNI	DANCY	SCRE	ENS			CIL		
	HDW/FU		A	В		С					
NASA IOA	[3 /3 [3 /3] []	[]	[]		[] *]	
COMPARE	[/] []	[]	[3		[]	
RECOMMEN	DATIONS:	(If d	iffere	nt fr	om NA	SA)					
	[/] [3	[]	[1	(A)	[DD/D] ELET	E)
* CIL RE	TENTION	RATIONAL	E: (If	appl	icabl	A	DEQUA' DEQUA'		[[]	
REMARKS:							~ - - -		•	•	

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SUBSYSTE MDAC ID: ITEM:		EPD&C 5398 FUSE,	15A	TO A	14 P	ANEL	(RCS	oms	HTRS	5)	
LEAD ANA	LYST:	K. SCI	MEC	KPEPE	ER	- To 1887 TEX	v				
ASSESSME	NT:										
	CRITICAL: FLIGH		RI	EDUNE	DANCY	SCRE	ENS			CIL	4
	HDW/FU	NC	A		В		C				
NASA IOA	[3 /2R [3 /2R]	[P]	[P]	[P]		[] *
COMPARE	[/]	[]	[]	[]		[]
RECOMMEN	DATIONS:	(If	dif	feren	t fr	om NA	SA)				
	[/]	[]	[]	[]	(AD	[D/DE] ELETE)
* CIL RE	TENTION I	RATIONA	LE:	(If	appl	icable	A	DEQUA DEQUA		[]
REMARKS:								gon		L	J

ASSESSME	ESSMENT DATE: 6/13/87 ESSMENT ID: EPD&C-5399 A FMEA #: 05-6-2601-1				NASA DATA: BASELINE [] NEW [X]								
SUBSYSTE MDAC ID: ITEM: BUSSES 1			EPD&C 5399 FUSE,		TO R	ESISTO	ORS '	ro co	NT BUS	S MA	IN	С,	ESS
LEAD ANA	LYS	T:	K. SC	HMEC	KPEP	ER		•					
ASSESSME	NT:												
		TICAL FLIGH		R		DANCY		EENS			CII	_	
		IDW/FU		A	•	В		С					
NASA IOA	[3 /1R 3 /1R]	[F]	[P [F]	[P]		[]	x]	*
COMPARE	[/]	[]	[N]	[]		[]	N]	
RECOMMEN	DA T	cions:	(If	dif	fere	nt fr	om N	ASA)					
	[/]	[]	[]	[]	(AI	[D/I	DEL	ETE)
* CIL RE							icab	A	DEQUA']]	
IOA CONC	URS	WITH	NASA'	S SC	REEN	"B".							

ASSESSMENT DA ASSESSMENT II NASA FMEA #:		C-5400		NASA DAT BASELIN NE	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5400 FUSE,				
LEAD ANALYST	K. SC	CHMECKPEPE	R		
ASSESSMENT:					
FI	CALITY LIGHT		ANCY SCRE		CIL ITEM
HDV	/FUNC	A	В	С	
NASA [IOA [3	/] /1R]	[] [P]	[] [F]	[] [P]	[] * [x]
COMPARE [N	/N]	[и]	[N]	[N]	[N]
RECOMMENDATIO	ons: (If	differen	t from NA	SA)	
ſ	/]	[]	[]		[] ADD/DELETE)
* CIL RETENTI	ON RATION	VALE: (If	applicable	e) ADEQUATE INADEQUATE	[]
REMARKS: WIRING CHANGE THEREFORE NA				FROM ALL L	-

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5401		1	NASA DATA: BASELINE NEW	[x]	
000000	EPD&C 5401 FUSE, 35A						
LEAD ANALYST:	K. SCHMECH	KPEPER					
ASSESSMENT:							
CRITICAI FLIGH HDW/FU	IT	EDUNDANCY B		c	CI	L EM	
NASA [3 /11 IOA [3 /11	R] [P] [F] []	P] P]	[x] x]	*
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RECOMMENDATIONS	(If dif	ferent fr	om NASA)				
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* CIL RETENTION REMARKS:	RATIONALE:	(If appl		ADEQUATE ADEQUATE	[x]	

ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #:	E: 12/07/87 EPD&C-54 05-6-227	02		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5402 FUSE, 35	S A			
LEAD ANALYST:	K. SCHME	CKPEPER			
ASSESSMENT:					
CRITICA FLIC		REDUNDAN	CY SCREI	ens	CIL
		A	В	C	ITEM
NASA [2 /: IOA [3 /:	IR] [IR] [P] [P] [F] F]	[P] [P]	[X] *
COMPARE [N /] [] []	[]	[]
RECOMMENDATIONS	S: (If di	fferent	from NAS	SA)	·
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* CIL RETENTION	N RATIONALE	: (If ap	plicable	ADEQUATE	[X]
REMARKS: IOA CONCURS WIT				INADEQUATE TO AFTER LEA	[] ARNING MORE

ASSESSMI ASSESSMI NASA FMI	ENT I	D:	EPD	5/87 4C-540 5-2247					NASA D. BASEL		[x]	_
SUBSYSTI MDAC ID: ITEM: All/Als,	:	F)	EPD8 5403 CIRC	3	REAK	ER, 1	.OA (MN C	UTIL	PWR			
LEAD AND	ALYSI	? :	к. я	SCHMEC	KPEP	ER						•	
ASSESSMI	ENT:												
		'ICAI		R	EDUN	DANCY	SCR	EENS			CI		
		W/FU		A		E	3	•	С				
NASA IOA	[3 [3	/3]	[]	[]	[]		[]	*
COMPARE	[/]	[]	[]	[]		[]	
RECOMME	NDATI	ONS:	: (:	If dif	fere	ent fi	com N	ASA)					
7.7.7277	[/]	[]	Ţ]	[]	(A)	[DD/	DEL.	ETE
* CIL R		TION	RATI(ONALE:	(If	appl	licab		ADEQUA ADEQUA		[]	

ASSESSME ASSESSME NASA FME SUBSYSTE MDAC ID: ITEM: A11/A15/	NT A	ID: #:	EPD: 05-0 EPD: 540-	\$C-540 5-2247 \$C	•	x]					
LEAD ANA			; TP (CUMEC	VDÉT	משו					
			Α	CIMEC	RPEI	EK					
ASSESSME	NT	:									
		ITICAL FLIGH	T			IDANCY			_	CII ITI	_
	I	HDW/FU	NC	A		F	3	(3		
NASA IOA	[3 /3 3 /3]	[]	[]	[[]	[[] *
COMPARE	[/]	[]	[]	£]	[]
RECOMMEN	DAT	rions:	(1	f dif	fere	nt fi	om N	ASA)			
	[/]	[]	[]	[] (A	[.DD/I] DELETE)
* CIL RE	TEI	NTION	RATIO	ONALE:	(If	app]	icab	7	ADEQUATE ADEQUATE	•]

ASSESSME ASSESSME NASA FME	NT ID:	6/06/87 EPD&C-54 05-6-226					A DATA SELINE NEW]
SUBSYSTEMDAC ID:		EPD&C 5405 CIRCUIT	BREAKE	ER, 10	A (CC	NT BU	S AB1,	AB2	, AB3)
LEAD ANA	LYST:	K. SCHM	ECKPEPE	ER					
ASSESSME	NT:								
	CRITICAL FLIGH		REDUNI	DANCY	SCREE	ens		CIL	
	HDW/FU		A	В		С			
NASA IOA	[3 /3 [3 /3] []	[]			[] *
COMPARE	[/] []	[]	[]	l	[]
RECOMMEN	DATIONS:	(If d	iffere	nt fro	AN mc	SA)			
	[/] []	[]	[) (A	[.DD/D] ELETE)
* CIL RE	TENTION	RATIONAL	E: (If	appli	icable	ADI	EQUATE EQUATE	[]
REMARKS:									

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5406	6		NASA DATA: BASELINE NEW	
SUBSYSTEM:	EPD&C 5406		10A (CONT		AB2, AB3)
LEAD ANALYST:	K. SCHMECH	KPEPER			
ASSESSMENT:					
CRITICALI FLIGHT HDW/FUN				· c	CIL ITEM
11511/1101			2	•	
NASA [3 /1R IOA [3 /1R] [P] [P] [F] [P] [P] P]	[X] * []
COMPARE [/] [] [и ј [1	[N]
RECOMMENDATIONS:	(If diff	ferent f	rom NASA)		
[/] [] [] [] (AD	[] DD/DELETE)
* CIL RETENTION F	ATIONALE:	(If app	· .	ADEQUATE ADEQUATE	[X]
REMARKS: IOA CONCURS WITH IS NOT READILY DE		EVALUATI(-	=

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		=	BASELINE [] NEW [X]	
	EPD&C 5407 DIODE, ISOLATIO	N 12A (TO CO	NT BUS AB1)	
LEAD ANALYST:	K. SCHMECKPEPER			
ASSESSMENT:				
CRITICALI FLIGHT		NCY SCREENS	CIL	
HDW/FU		в с		
NASA [3 /1R IOA [3 /1R] [P]] [P]	[F] [P [P] [X]	*
COMPARE [/] []	[] [] []	
RECOMMENDATIONS:	(If different	from NASA)	•	
[/] []	[] [] [] (ADD/DELI	ETE)
* CIL RETENTION 1	RATIONALE: (If a	A	DEQUATE [X] DEQUATE []	
REMARKS: NASA HAS ADDED TO IOA CONCURS.	HE FAILURE MODE			FMEA

ASSESSME	ASSESSMENT DATE: 6/19/87 ASSESSMENT ID: EPD&C-5408 NASA FMEA #: 05-6-2181-2								NASA DATA: BASELINE [] NEW [X]							
SUBSYSTEMDAC ID:	M:		EPD&6 5408 DIOD		OLAT	'ION	12A (TO CO	ONT B	US A	B1)					
LEAD ANA	LYSI	:	K. S	CHMEC	KPEP	ER										
ASSESSME	NT:															
•		TICAL FLIGH	ITY T	R	EDUN	DANC	Y SCR	EENS			CI					
	HI	W/FU	NC	A]	В	(C							
NASA IOA	[3	3 /3]	[]	[]	[]] [] *	r			
COMPARE	C	/]	[]	[]	[]		[]				
RECOMMEN	DATI	ons:	(I:	f dif	fere	nt fi	com N	ASA)								
	[/]	[]	[J	[]	(A	[DD/1] DELET	'E)			
* CIL RE	rent	CION :	RATIO	NALE:	(If	app]	licab	1	ADEQUA ADEQUA		[]				

ASSESSMENT ASSESSMENT NASA FMEA	ID:	6/19/8 EPD&C- 05-6-2	5409		NASA DATA: BASELINE [] NEW [X]							
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5409 DIODE,	ISC	LATI	ON 12	2 A (TC) CON	T BUS	AB2)			
LEAD ANALY	ST:	K. SCH	MECK	PEPE	R							
ASSESSMENT	?:											
	RITICAL FLIGH		RE	DUND	ANCY	SCREE	ens		CI	L EM		
	HDW/FU		A		В		С					
NASA [IOA [3 /3]	[]	[]	[]	[] *		
COMPARE [[/]	[]	[]	Į.]	[1		
RECOMMENDA	ATIONS:	(If	diff	feren	t fr	om NAS	5A)					
1	[/]	[]	[]	[]	[(ADD/] 'DELETE		
* CIL RETI	ENTION	RATIONA	ALE:	(If	appl	icable	AD	EQUAT	_]		
REMARKS:												

ASSESSMENT I ASSESSMENT I NASA FMEA #:	ID: EPD&C-	-5410	NASA DATA: BASELINE [] NEW [X]							
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5410 DIODE,	ISOLATI	ON 12A (T	O CONT BUS A	AB2)					
LEAD ANALYST	r: K. Sch	IMECKPEPE	R							
ASSESSMENT:										
	FICALITY FLIGHT	REDUND	ANCY SCRE	ENS	CIL ITEM					
н	OW/FUNC	A	В	С						
NASA [3	3 /1R] 3 /1R]	[P] [P]	[F] [F]	[P] [P]	[X] * [X]					
COMPARE [/ 1	[]	[]	[]	[]					
RECOMMENDATI	ONS: (If	differen	t from NA	SÃ)						
	/ 1	[]	[]	[] (A	[LDD/DELETE)					
* CIL RETENT	TION RATIONA	LE: (If	applicabl	e) ADEQUATE INADEQUATE	[X] []					
REMARKS: NASA HAS ADD		URE MODE	"SHORTS		O THIS FMEA.					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/04/87 EPD&C-5411 05-6-2181-1	NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5411 DIODE, ISOLATIO	N 12A (TO CONT BUS A	B3)
LEAD ANALYST:	K. SCHMECKPEPER		
ASSESSMENT:			
CRITICAL FLIGH	T	NCY SCREENS	CIL ITEM
HDW/FU	INC A	ВС	
NASA [3 /1F IOA [3 /1F	[P] [P]	[F] [P] [F] [P]	[X] *
COMPARE [/] []	[] []	[]
RECOMMENDATIONS:	(If different	from NASA)	
[/] []	[] [] (A)	[] ADD/DELETE)
* CIL RETENTION	RATIONALE: (If a	applicable) ADEQUATE INADEQUATE	[X]
REMARKS: NASA HAS ADDED T IOA CONCURS.	THE FAILURE MODE	"SHORTS TO GROUND" T	O THIS FMEA

ASSESSME ASSESSME NASA FME	ID:	6/19/ EPD&C 05-6-				1	NASA BASE	LINE]		
SUBSYSTEM: EPD&C MDAC ID: 5412 ITEM: DIODE, ISOLATI LEAD ANALYST: K. SCHMECKPEPE							L2A (TO CO	ONT B	US A	B3)	
LEAD ANA	LYS	T:	K. SC	HMEC	KPEP	ER						
ASSESSME	NT:											
		TICAL FLIGH		R	EDUN	DANC	scr	EENS			CII	_
HDW/FUNC A						I	3	(3			
NASA IOA	[3 /3 3 /3]	[]	[]	[]		[] *
COMPARE	[/]	[]	[]	[]		[]
RECOMMEN	DAT	ions:	(If	dif	fere	nt fi	om N	ASA)				
. Januari e e	[/]	[]	[]	[]	(A)	[DD/E] ELETE)
* CIL RE	TEN'	TION	RATION	ALE:	(If	app]	icab	P	DEQU DEQU		[]
REMARKS:											L	J

ASSESSME	ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5413 NASA FMEA #: 05-6-2225-1								NASA DAT BASELIN NI		x]	
SUBSYSTE MDAC ID:			EPD8 5413 SWIT	3	OGGL	E (DC	UTII	_ PW	R MN C)			
LEAD ANA	LYST	:	K. 5	CHMEC	KPEP	ER						
ASSESSME	ENT:											
	CRIT	ICAL LIGH		R	EDUN	DANCY	SCRI	EENS		C]	L	
		W/FU		A		В			С			
NASA IOA	[3 [3	/3 /3]	[]	[]	[]]]	*
COMPARE	Ţ	/]	ί]	[]	[]	[]	
RECOMMEN	ITADI	ons:	(:	f dif	fere	nt fr	om N2	ASA)				
	[/]	[]	[1	[]	[(ADD,	DELE	TE)
* CIL RI		'ION	RATI(ONALE:	(If	appl	icab:		ADEQUAT]	
	-											

ASSESSME ASSESSME NASA FME	NT	ID:		-541]	NASA DAT BASELIN NE]
SUBSYSTE MDAC ID: ITEM:			EPD&C 5414 SWITC	н, т	OGGLE	E (DC	UTIL	PWI	R MN C)		
LEAD ANA	LYS'	r:	K. SC	HMEC	KPEPE	ER					
ASSESSME	NT:										
		TICAL FLIGH		R	EDUNI	ANCY	SCRE	ENS		CII	_
		DW/FU		A		В		(3	ITE	.M
NASA IOA		3 /3 3 /3]	[]	[]]]	[] *
COMPARE	[/]	[]	[J	[]	[]
RECOMMEN	DAT:	ions:	(If	dif	feren	t fr	om NA	SA)			
	[/]	[]	[]	[] (.	[ADD/D] ELETE)
* CIL RE	TEN	rion 1	RATION	ALE:	(If	appl:	icabl	7	ADEQUATE ADEQUATE	-]
REMARKS:											

ASSESSME ASSESSME NASA FME	ENT	ID:	EPI	EPD&C-5415 BASEL 05-6-2225-1							x]
SUBSYSTE MDAC ID:			EPI 541 SWI		OGGL	E (DC	UTI	L PWR	MN C)		
LEAD ANA	LYS	T:	ĸ.	SCHMEC	KPEP	ER	i ever-	E St.			. 5
ASSESSMI	ENT:										
	CRI	TICA	LITY	F	REDUN	DANCY	SCRI	EENS		CI	
	H	IDW/I		P	.	В		C			
NASA IOA]	3 /3 3 /3	B]	[]	[]	[[]	[] *
COMPARE	[/	1	[]	[]	[]	[]
RECOMME	radn	TIONS	5 :	(If di	ffere	nt fr	om N	ASA)	•		
	[/]	[]	Ĩ.]	[]	[(ADD/] DELETE
* CIL R		TIOI	N RAT	IONALE	: (If	appl	icab	P	DEQUATI	-]

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ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5416 NASA FMEA #: 05-6-2225-1										NASA DATA BASELINI NEV	Ξ []
SUBSYSTE MDAC ID: ITEM:	M:		54	PD&C 416 WITCI	H, T	OGGLI	E (DC	: UTIL	, PI	WR MN C)		
LEAD ANA	LYS	ST:	K	. SCI	IMEC:	KPEPI	ER					
ASSESSME	NT:	:										
	CR1	TIC FLI	ALIT!	Z	R	EDUNI	DANCY	SCRE	ENS	5	CII	
	F		FUNC		A		В	3	ITI	SM.		
NASA IOA	[3 / 3 /	3] 3]		[]	[]	[]	[] *]
COMPARE	[/]		[]	[]	[]	[]
RECOMMEN	LAG	CION	s:	(If	dif	feren	nt fr	om NA	SA)			
	[/]		[1 .	[] ,	[[ADD/E] DELETE)
* CIL RE	TEN	TIO	N RAT	NOI	ALE:	(If	appl	icabl	•	ADEQUATE	[]
REMARKS:									-1	DIQUATE	ι	J

ASSESSME ASSESSME NASA FME			Ŋ		DATA ELINE NEW	[x]						
SUBSYSTEM MDAC ID:	M:		EPD& 5417 SWIT	•	OGGLE	(DC	UTIL	PWE	R MIN	C)			
LEAD ANA	LYST	:	к. s	CHMEC	KPEPE	R							
ASSESSME	NT:												
		LIGH	T		EDUND			ENS	•		CI	L	
	HD	W/FU	NC	A		В		,	•				
NASA IOA	[3 [3	/3 /3]	[]	[[]	[]		[[) *
COMPARE	[/]	[]	[]	[]		٦.]]
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* CIL RE	TENT	ION	RATI(NALE:	(If	appl	icabl	7		UATE UATE	[:]

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SUBSYST				EPD 541 SWI	.8	TOGGL	E (DC	UTIL	PWR	MN	C)			
LEAD AN	ALY	ST	:	ĸ.	SCHMI	ECKPEP	ER	.						
ASSESSM	ENT	:												
		F	ICAI LIGH W/FU	T		REDUNI	DANCY B		ENS C			CII		
NASA IOA	[3	/3 /3]	[]	[]	[]		[]	*
COMPARE	[/]	[]	[1	ι .]		[]	
RECOMME	NDA'	TIC	ons:	(If di	iffere	nt fr	om NA	SA)					
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SUBSYSTE MDAC ID:			EPD&0 5419 RESIS	-	1.2	K 2W ((TO I	FPCA-	3)		
LEAD ANA	LYST	:	K. S	CHMEC	KPEP	ER					
ASSESSME	NT:										
		ICAL		R	EDUN	DANCY	SCRI	EENS	-	CIL	
	FLIGHT HDW/FUNC					В		C		****	•
NASA IOA	[2	/1R /1R]	[P]	[P [F]	[P		[X] *]
COMPARE	[/]	[]	[N]	[1	[]
RECOMMEN	IDATI	ons:	(I	f dif	fere	ent fr	om N	ASA)			
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REMARKS: THE "B" OPERATION	SCRE						ROUN	D CAN	MONITER	THE	MCA

ASSESSME ASSESSME NASA FME	D:	EPI	/08/87 D&C-541 -6-2707				1		DATA LINE NEW		x]			
SUBSYSTE MDAC ID:				EPI 541 RES		1.2	2K 2W	(TO	FPCA-	-3)				
LEAD ANA	LY	ST	:	K.	SCHMEC	KPE	PER							
ASSESSME	ENT	:												
	CR				R	EDUI	NDANCY	sci				CI		
	FLIGHT HDW/FUNC						E	3	C	3		IT	SM	
NASA IOA	[3	/3 /3]]]	[]	[]		[] *	r
COMPARE	[/)	[]	[]	[]		[]	
RECOMMEN	DA!	ri	ONS:	: ((If dif	fere	ent fr	om 1	NASA)					
	[/]	[]	[]	[]	(A)	[DD/I] DELET	E)
* CIL RE	TEI	NT:	ION	RATI	ONALE:	(Ii	f appl	icak	A	DEQU DEQU		[]	
REMARKS:										.DLQO	****	L	1	

ASSESSME ASSESSME NASA FME	NT I		EPD	08/87 &C-542 6-2657		₹ 5		NASA D BASEL		[]		
SUBSYSTE MDAC ID:	M:		EPD 542 SWI	0	OGGL:	E SPS	T (M	CA L	OGIC M	N C	FWD	3)	
LEAD ANA	LYST	:	K.	SCHMEC	KPEP	ER		-					
ASSESSME	NT:												
	CRIT	ICAL LIGH		F	REDUN	DANCY	SCR	EENS		-	CIL		
		W/FU		P	1	E	3	(C				
NASA IOA	[3 [3	/3 /3]	[]	[]	[]		ן נ) ,	k
COMPARE	[/	1	[1	[1	[]		[]	
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* CIL RE		'ION	RATI	ONALE	: (If	appl	licab		ADEQUA ADEQUA		[]	
REMARKS:	i												

ASSESSME	SSESSMENT DATE: 12/07/87 SSESSMENT ID: EPD&C-5421 ASA FMEA #: 05-6-2657-1													DA! ELII NI	1E		X]	
SUBSYSTE MDAC ID:				EPD&C 5421 SWITC		T	OGGLE	SI	es:	r (MC.	A]	נסס	GIC	MN	С	FW	D	3)	
LEAD ANA	LYS	ST	:	K. SC	HM	ECI	KPEPEI	3											
ASSESSME	ENT	:																	
	CR		ICAL: LIGH	ITY F		RI	EDUNDA	ANC	Y	SCRE	ENS	3				CI IT		1	
	I	IDI	W/FUI	NC		A			В			С							
NASA IOA]	2	/1R /1R]	[P P]	[P F]	[P P]			[X X]	*
COMPARE]٠		/]	[]	[N]	[]			[]	
RECOMMEN	(ACI	ric	SMC:	(If	d:	ifi	ferent	: f	r	om NA	SA)		_						
	[/]	[]	[]	[]	((AI	[D/	DE] ELE	TE)
* CIL RE	ETEN	T.	ION 1	RATION	ALI	Ξ:	(If a	pp	11	icable	e)								
				e ar w F							IN			JATI JATI		[X]	
REMARKS: THE "B" OPERATION	SCI								GF	ROUND	CI	AN	MOI	NITE	ER	тн	E	MC	À

ASSESSME ASSESSME NASA FME	NT ID:	EPD&C			NASA DATA BASELINE NEW	
SUBSYSTEMDAC ID:	M:	EPD&C 5422 FUSE,	150A TO	FPCA-3		
LEAD ANA	LYST:	K. SC	НМЕСКРЕРЕ	IR.		
ASSESSME	NT:					
•	FLI	ALITY GHT FUNC	REDUND A	DANCY SCRE	ENS C	CIL ITEM
	•			_	•	F 35 3 4
NASA IOA	[3 /	'1R] '1R]	[P] [P]	[F] [F]	[P] [P]	[X] * [X]
COMPARE	[/	']	[]	[]	[]	[]
RECOMMEN	DATION	ıs: (If	differer	nt from NA	SA)	
	[/	']	[]	[]	[]	[] ADD/DELETE)
* CIL RE	TENTIC	N RATION	ALE: (If	applicabl	e) ADEQUATE INADEQUATE	[X]
KEMAKKS:						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-	5423				-	ASA DATA BASELINE NEW	[x]
	EPD&C 5423 FUSE,	150 <i>A</i>	A TO F	PCA-	-3	-			
LEAD ANALYST:	K. SCH	MECF	(PEPEF	ξ		u +*			
ASSESSMENT:									
CRITICAL		RE	DUNDA	NCY	SCREE	ENS	and confidence of the confidence and	CI	_
FLIGHT HDW/FUN		A		В		С		IT	EM
NASA [3 /1R IOA [3 /1R]	[P]	[F]	[P]	[X] * X]
COMPARE [/]	[]	[]	[1	[]
RECOMMENDATIONS:	(If	diff	erent	: fro	om NAS	SA)			÷
]	[]	[]	[[]	[DD/] DELETE)
* CIL RETENTION I	ANOITA	LE:	(If a	ippli	cable	A	DEQUATE DEQUATE	[X]

ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5424 NASA FMEA #: 05-6-2354-1 SUBSYSTEM: EPD&C MDAC ID: 5424									ŀ	IASA BASE		[]	
MDAC ID:					4 ISTOR,	5.1	K 1/41	T) W	o GSI	MON	ITOR)		
LEAD ANA	LYS	ST:		K. 8	SCHMEC	KPEP	ER							
ASSESSME	NT:	:												
	CR:		CAL	ITY	R	EDUN	DANCY	SCR	EENS			CII		
	I		/FU		A		В		(:	-	: .		
NASA IOA	[3 3	/3 /3]]]	[]	[]		[]	*
COMPARE	[/	1	[]	[]	[]		[]	
RECOMMEN	IDA:	ric	NS:	(If dif	fere	nt fr	om N	ASA)					
	[/]]]	[3	Ţ]	(A	[I\dd) DELE	ETE
* CIL RE	ETE	NTI	ON	RATI	ONALE:	(If	appl	icab	ž	ADEQU ADEQU		[]	

REMARKS:

ASSESSME ASSESSME NASA FME	ENT :	ID:	6/06/ EPD&C 05-6-	-542				1	NASA DAT BASELII NI		(]
SUBSYSTE MDAC ID:			EPD&C 5425 RPC,		FMCA	-3 PV	VR CO	NT)			
LEAD ANA	LYS	Г:	K. SC	HMEC	KPEP	ER			-		
ASSESSME	ENT:										
			ITY	R	EDUN	DANC	SCR	EENS		CII	
		FLIGH DW/FU		A		F	3	(2	ITE	rw.
NASA IOA	[3	3 /3 3 /3]	[]	[]	[]	[] *]
COMPARE	[/]	[]	[]	. []	[]
RECOMMEN	DAT]	cons:	(If	dif	fere	nt fr	om N	ASA)			
	ָ [/]	[]	[]	[]	[(ADD/E] DELETE)
* CIL RE	TENT	rion :	RATION	ALE:	(If	appl	icab	Ī	ADEQUATE ADEQUATE	•]
REMARKS:										- L	4

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	• •			ASA DATA: BASELINE NEW						
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5426 RPC, 5A (FMCA-3 PWI	R CONT)							
LEAD ANALYST:	K. SCHMEC	KPEPER								
ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS C										
HDW/F	JNC A	В	C							
NASA [2 /1] IOA [2 /1]	R] [P R] [P	P] [P]	[X] *					
COMPARE [/] [] [N] []	[]					
RECOMMENDATIONS	: (If dif	ferent fr	om NASA)							
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* CIL RETENTION	RATIONALE:	(If appl	A	DEQUATE						
REMARKS: IOA CONCURS WIT OF RPC VIA OPER				CAN DETE	RMINE STATE					

ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5427 NASA FMEA #: 05-6-2294-							7								ELI	INE		x]	
SUBSYST: MDAC ID ITEM:				EPD&C 5427 FUSE,	3	5A	то	FL	CA	:	3									
LEAD AN	ALY	ST	:	K. SCI	HM	EC	KPE:	PER												
ASSESSM	ENT	:																		
	CR		ICAL: LIGH'	ITY F		RI	EDUI	NDAI	NC	Y	SCF	REENS	3				CI			
		HD	W/FU	NC.		A				В			С							
NASA IOA	[1 3	/1 /1R]]	P]		[F]	[P]] [X X]	*
COMPARE	[N	/N	3	[N]		[N]	[N]			[]	-
RECOMME	NDA	TI	ons:	(If	d :	ifi	fere	ent	f	rc	om N	IASA))			- =				
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* CIL R	ETE	NT:	ION 1	RATION	ΑLI	Ξ:	(I:	f ap	qq	1 i	cab	•			LAU LAU					
REMARKS IOA AGRI UNAWARE	EES											SE 1	CHI	ΞI	OA	ΑN	ALY		•	IAS

ASSESSMEI ASSESSMEI NASA FME	ID:	6/19/8 EPD&C NOT F	-542	В				ASA DATA BASELINE NEW	[]	
SUBSYSTEM MDAC ID:	M:		EPD&C 5428 RESIS	ror,	5.1K						
LEAD ANA	LYS'	T:	K. SC	HMEC:	KPEPE	R					
ASSESSME	NT:										
			ITY	R	EDUND	ANCY	SCRE	ENS		CIL	
	FLIGHT HDW/FUNC					В		С			
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RECOMMEN	DAT	ions:	(If	dif	feren	t fro	om NA	SA)			
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* CIL RE	TEN	TION	RATION	ALE:	(If	appl	icabl	A	DEQUATE DEQUATE	[]
REMARKS: THIS COM POINT. CONCURS.	THE	ENT H	IAS NO RE NASA	CONN	ECTIC NOT	N TO	FLIG UDE I	HT H T IN	ARDWARE THEIR F	OR I	S A TEST

NASA FMEA #:	EPD&C-5429		NASA DAT BASELIN NE	
MDAC ID:	5429 RESISTOR, 1.8	K 1/4W (TO	SIG COND O	F3)
LEAD ANALYST:	K. SCHMECKPEP	ER		
ASSESSMENT:		4.4		
	TY REDUNI	DANCY SCRE	ENS	CIL
FLIGHT HDW/FUN		В	C	ITEM
NASA [3 /3 IOA [3 /3		[]	[]	[] *
COMPARE [/] []	[]	[]	[]
RECOMMENDATIONS:	(If differe	nt from NA	SA)	
[/] []	[]	[] (2	[] ADD/DELETE)
* CIL RETENTION R	ATIONALE: (If	applicable	ADEQUATE INADEQUATE	[]

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5430		NASA DATA BASELINE NEW								
	EPD&C 5430 RESISTOR, 1.2K	2W (TO MP	CA-3)	-							
LEAD ANALYST:	K. SCHMECKPEPE	R.									
ASSESSMENT:											
FLIGH				CIL ITEM							
HDW/FU	NC A	В	C								
NASA [2 /1R IOA [2 /1R		[P] [F]	[P] [P]	[X] * [X]							
COMPARE [/] []	[N]	[]	[]							
RECOMMENDATIONS:	(If differen	t from NAS	A)								
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* CIL RETENTION	RATIONALE: (If	applicable)								
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REMARKS: THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE MOTOR OPERATION TIME.											

ASSESSMEN ASSESSMEN NASA FMEA SUBSYSTEM MDAC ID: ITEM:	T ID: #:	EPD&C-54	4-2	K 2W	(TO M			INE	-	k]	
LEAD ANAL	YST:	K. SCHME	CKPEP	ER							
ASSESSMEN	T:										
C	RITICALI FLIGHT	ľ			SCRE				CII		
	HDW/FU	NC 2	A	В		C					
NASA IOA	[3 /3] []	[[]	[]		[[] *	t
COMPARE	[/] []	[]	[1		[J	
RECOMMEND	ATIONS:	(If dif	fere	nt fr	om NA	SĀ)					
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* CIL RET	ENTION F	RATIONALE:	(If	appl	icabl	A	DEQUAT DEQUAT		[]	
REMARKS:						-4411	~~~~		L	J	

ASSESSMENT DATE: 12/08/ ASSESSMENT ID: EPD&C- NASA FMEA #: 05-6-2														SA D BASEL		[]	
SUBSYSTE MDAC ID: ITEM:				54		OI	٦,	1.2				MPC		()					
LEAD ANA	LYS	T:	:	ĸ.	SCI	IMI	ECI	(PE	PER	re s	: * : .				-				
ASSESSME	NT:	;																	
	CRI		CAL									REENS	5			CI	[L CEM	1	
	F		V/FUI				A			В	•		С					-	
NASA IOA			/1R /1R			[P P]	[P F]	[P P]		[X]	*
COMPARE	[/]		[]	[N]	[]		[]	
RECOMMEN	(ADI	ric	ONS:		(If	d :	if	fere	ent	fr	om N	IASA)			-			
	[/]		[]	[]	Į]	(AI	[/ac	/DI] ELH	ETE)
* CIL RE	TE	T.	ION :	RAI	'ION	AL	Ε:	(1:	f ap	pl	icak	ole)	זג	DEQUA	me	г	x	7	
												I		DEQUA		[•]	
THE "B"	EMARKS: THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA TREATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE TOTOR OPERATION TIME.																		

ASSESSME ASSESSME NASA FME SUBSYSTE MDAC ID: ITEM:	ENT : EA # EM:	ID: :	EPD& 05-6 EPD& 5431	C-54: -270: C	3-2	2K 2W	(TO	MPCA	-		x]
LEAD ANA	LYS	r:	K. S	CHME	CKPEF	PER					
ASSESSME	NT:										
		rical Fligh		1	REDUN	DANC	Y SCR	EENS		CI	
			NC	1	A .	1	3	(2	IT	SM.
NASA IOA	[3	3 /3]	[[]	[]	[]	[] *]
COMPARE	[/	.]	[]	Ţ]	[]	[]
RECOMMEN	DAT	cons:	(I	f di	ffere	nt fi	com N	ASA)			
	[/]	[]	[]	[[\DD/I] DELETE)
* CIL RE	TENT	CION :	RATIO	NALE:	(If	app]	licab	<i>I</i>	ADEQUATE ADEQUATE	[]

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/08/87 EPD&C-5432 05-6-2654-1		NASA DATA BASELINE NEW	-									
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5432 SWITCH, TOGGLE	SPST (MCA	LOGIC MN C	MID 2)									
LEAD ANALYST:	K. SCHMECKPEPE	R											
ASSESSMENT:													
CRITICAL FLIGH		ANCY SCREE	NS	CIL ITEM									
HDW/FU		В	C										
NASA [2 /1R IOA [2 /1R	[P] [P]	[P] [F]	[P] [P]	[X] * [X]									
COMPARE [/] []	[N]	[]	["]									
RECOMMENDATIONS:	(If differen	t from NAS	A)										
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* CIL RETENTION	RATIONALE: (If	applicable)										
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REMARKS: THE "B" SCREEN F OPERATIONAL STAT MOTOR OPERATION	REMARKS: THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE												

ASSESSMENT ID: NASA FMEA #:			BASELINE NEW	
	EPD&C 5433 SWITCH, TOG	GGLE SPST (MCA	LOGIC MN C	MID 2)
LEAD ANALYST:	K. SCHMECKE	PEPER		
ASSESSMENT:				
CRITICAL FLIGH		OUNDANCY SCREENS	s	CIL ITEM
HDW/FU	NC A	В	C	
NASA [3 /1R IOA [3 /3] [P]	[F] [[] [P]	[X] *
COMPARE [/N] [N]	[и]	N]	[N]
RECOMMENDATIONS:	(If diffe	erent from NASA)	·
[/] []	[] [[] DD/DELETE)
* CIL RETENTION	RATIONALE: (ADEQUATE NADEQUATE	[X]
REMARKS: IOA CONCURS WITH "PSYCHOTIC GPC"		ALUATION AS 10A	A WAS UNAWA	RE OF THE

ASSESSMENT DATE: 12/08/87]		SA D				_	
ASSESSMENT		•	EPD&C								B	ASEL		-	v]	
NASA FMEA	#:		05-6-	265	3-	·1							NEW	L	Λ	J	
SUBSYSTEM: MDAC ID: ITEM:			EPD&C 5434 SWITC	Η,	тc	GGLE	SI	PSI	' (MCA	L	og:	IC M	n c	M.	ſD	4)	
LEAD ANALY	ST:		K. SC	HME	CK	(PEPEI	3										
ASSESSMENT	:																
CR	-	CALI IGHI			RE	DUND	ANC	Y	SCREE	NS					IL CEM	ī	
•		/FUN			A			В			С					-	
		/1R /1R		[[P P]]	P F]	[[P P]		[X X]	*
COMPARE [/]	[]	[N]	[]		[]	
RECOMMENDA	TIO	ns:	(If	di	fí	feren	t :	fro	om NAS	A)							
[/]	[]	[]	[]	(A	-	/DI	-	ETE
* CIL RETE	ENTI	ON I	RATION	ALE	3:	(If	apj	ol:	icable	:)				_			
												EQU <i>A</i> EQU <i>A</i>		[X]	
REMARKS: THE "B" SO OPERATIONA MOTOR OPER	AL S	TAT	JS MEA	BEC SUI	CAU	JSE T MENTS	HE Al	GI ND	ROUND THE C	CA	N W	MONI CAN	TER MON	T! IT!	HE ER	M(CA HE

ASSESSMENT ID: NASA FMEA #:	EPD&C-5435		BASELIN	
SUBSYSTEM: MDAC ID:	EPD&C 5435			
ITEM:	SWITCH, TOGO	LE SPST (M	CA LOGIC MN	C MID 4)
LEAD ANALYST:	K. SCHMECKPE	EPER		
ASSESSMENT:				
CRITICAL: FLIGHT		UNDANCY SCR	EENS	CIL ITEM
HDW/FUI		В	С	liem
NASA [3 /1R IOA [3 /3] [P]] []	[F] []	[P] []	[X] *
COMPARE [/N] [N]	[N]	[N]	[N]
RECOMMENDATIONS:	(If differ	ent from N	ASA)	
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* CIL RETENTION I	RATIONALE: (I	f applicab	le) ADEQUATE INADEQUATE	
REMARKS: IOA CONCURS WITH "PSYCHOTIC GPC" (LUATION AS	~	

ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5436 NASA FMEA #: 05-6-2295-1													ASA DATA BASELINE NEW] :	x]			
SUBSYSTE MDAC ID: ITEM:				54	D&C 36 SE,	10	007	T	O MPO	CA-	-3								
LEAD ANA	LYS	ST	:	ĸ.	SCI	IMI	ECI	KPE	PER			. 4.							
ASSESSME	NT	:																	
	CRITICALITY FLIGHT HDW/FUNC						RI	EDU	NDAN	CY	SC	REENS				IL PEI			
	I	HDI	W/FUI	NC.			A			В			С						
NASA IOA			/1R /1R			[P P]	[P P]	[P P]	[[X]	*	
COMPARE	[N	/]		[]]	[]	[N]		
RECOMMEN	IDA'	rI(ons:		(If	đ	if	fer	ent :	fr	om :	nasa))						
	[/]		[]	[]	[] (2		/D 1		ETE)	
* CIL RETENTION RATIONA							Е:	(I	f ap	pl	ica			DEQUATE DEQUATE	[x]		
REMARKS: IOA CONC THE CIRC	UR		WITH	NÆ	ASA'	s :	RE	EVA	LUAT	10	N A	FTER	F	URTHER I	EXA	MI	NA'	rion	ı of

ASSESSME NASA FME SUBSYSTE MDAC ID: ITEM: LEAD ANA	ENT EA #	ID:	EPD&6 05-6 EPD&6 5437	C-543 -2354 C STOR,	-1 5.1		1₩ (T			LINE	[]	к]
ASSESSME	NT:											
		TICAL FLIGH		R	EDUN	DANC	SCR	EENS			CII	
		DW/FU		A		F	3		2		ITH	SM.
NASA IOA	[3 /3]	[[]	[]	[]		[] *
COMPARE	[/]	[3	[]	[]		[]
RECOMMEN	DAT:	ions:	(Ii	f dif	fere	nt fr	om N	ASA)				
	[/	1	[]	[]	[]	(A	[DD/[] DELETE)
* CIL RE	TEN'	rion	RATION	NALE:	(If	appl	icab	7	ADEQU ADEQU		[]
REMARKS:										-	·	,

ASSESSMENT ASSESSMENT NASA FMEA #	ID:		-5438				BASELII NI]	
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5438 FUSE,	35A	то	H2/O2	HTR	CONT	ASSY :	#1		
LEAD ANALYS	T:	K. SCI	IMEC:	KPEF	ER						
ASSESSMENT:											
75.2	TICAL FLIGH	${f r}$	R	EDUN	IDANCY	SCRI				IL TEI	
Н	DW/FU	NC	A		В	• 1	С				
NASA [IOA [3 /1R 3 /1R]	[P]	[P [F]	[P [P]] [х] *
COMPARE [/]	[3	[N]	[]	[N]
RECOMMENDAT	ions:	(If	dif	fere	ent fro	om N	ASA)				
[/]	[]	[]	[]		/D] ELETE)
* CIL RETEN	TION	RATION	ALE:	(II	f appl:	icab	A.	DEQUAT DEQUAT	E []
REMARKS: IOA CONCURS	WITH	NASA'	s sc	REEI	1 "B".						

ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5439 NASA FMEA #: 05-6-2299-1															ASA D. BASEL	INE]	
SUBSYSTE MDAC ID:											2	HTR	COI	NT	ASSY	#2			
LEAD ANA	LY	ST	:	ĸ.	SCI	HIMI	EC	KPEI	PER										
ASSESSME	ASSESSMENT:																		
FLIGHT												CII							
	I		W/FUI	_														1F1	
NASA IOA]	3 3	/1R /1R]]	P P]		[]	P F]	[P P]		[}]	*
COMPARE	[/]		[]		[]	N]	[]		[]	[]	
RECOMMEN	'DA'I	ΓΙC	ONS:	(Ιf	d:	ífi	fere	ent	f	rc	om NA	SA))					
e volume de la	[/]		[]		[]	[]	(AI	[DD/E] ELE	TE)
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IOA CONC	URS	5 7	HTIN	NAS	A'S	3 5	CI	REEN	1 "]	В".									

EPD&C	-5440		NASA DATA: BASELINE [] NEW [X]						
5440		H2/O2	HTR	CONT ASSY					
ĸ. sc	нмескрер	ER							
HT			SCRI			IL PEM			
TUNC	A	В		С					
LR] LR]	[P] [P]	[P [F]	[P] [P]	[x] *			
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5: (If	differe	nt fr	om Ni	ASA)					
]	[]	[]	[]	[(ADD,] /DELETE			
			icab:	ADEQU <i>i</i>]			
	EPD&C 05-6- EPD&C 5440 FUSE, K. SC ALITY SHT FUNC 1R] 1R] 1R] 1R]	O5-6-2299-1 EPD&C 5440 FUSE, 50A TO K. SCHMECKPEP ALITY REDUN SHT FUNC A IR] [P] IR] [P] S: (If differe	EPD&C-5440 05-6-2299-1 EPD&C 5440 FUSE, 50A TO H2/02 K. SCHMECKPEPER ALITY REDUNDANCY GHT FUNC A B 1R] [P] [P] 1R] [P] [F] [] [N S: (If different from the second of t	EPD&C-5440 05-6-2299-1 EPD&C 5440 FUSE, 50A TO H2/O2 HTR K. SCHMECKPEPER ALITY REDUNDANCY SCRE GHT FUNC A B IR] [P] [P] IR] [P] [F] S: (If different from NA] [] [] [] N RATIONALE: (If applicable)	EPD&C-5440 05-6-2299-1 EPD&C 5440 FUSE, 50A TO H2/02 HTR CONT ASSY K. SCHMECKPEPER ALITY REDUNDANCY SCREENS GHT FUNC A B C IR] [P] [P] [P] IR] [P] [P] S: (If different from NASA)] [] [N] [] N RATIONALE: (If applicable) ADEQUATIN	EPD&C-5440 05-6-2299-1 EPD&C 5440 FUSE, 50A TO H2/02 HTR CONT ASSY #4 K. SCHMECKPEPER ALITY REDUNDANCY SCREENS GHT FUNC A B C IR] [P] [P] [P] [P] [P] IR] [P] [F] [P] [C S: (If different from NASA)] [] [N] [] [] [ADD, N RATIONALE: (If applicable) ADEQUATE [INADEQUATE [

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-544	1	N	BASELINE NEW	=
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5441 RPC, 5A (TO MMCA-2)		
LEAD ANALYST:	K. SCHMEC	KPEPER			
ASSESSMENT:					
CRITICAL		EDUNDANCY	SCREENS		CIL
FLIGH HDW/FU		. В	c		ITEM
NASA [3 /1R IOA [3 /3] [P] [F] [P]	[X] *
COMPARE [/N] [N] [N] [N]	[N]
RECOMMENDATIONS:	(If dif	ferent fro	om NASA)		
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IOA CONCURS WITH	NASA - IO	A UNAWARE	OF "PSYC	HOTIC GPO	" PROBLEM.

			BASELINE	
EPD&C 5442 RPC, 5A (1	ro mmca-2)			
K. SCHMECE	KPEPER			
ITY RI T NC A		SCREENS		CIL ITEM
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RATIONALE:	(If appl:	A)		[X]
	EPD&C-5442 05-6-2804- EPD&C 5442 RPC, 5A (7) K. SCHMECT ITY RITY NC A] [P] [P] [[P	EPD&C-5442 05-6-2804-1 EPD&C 5442 RPC, 5A (TO MMCA-2) K. SCHMECKPEPER ITY REDUNDANCY T NC A B [P] [P] [P	EPD&C-5442 05-6-2804-1 EPD&C 5442 RPC, 5A (TO MMCA-2) K. SCHMECKPEPER ITY REDUNDANCY SCREENS T NC A B C [P] [P] [P] [P] [P] [P] [P] [P] [P] [P] [P] [P] [P]	EPD&C-5442 05-6-2804-1 EPD&C 5442 RPC, 5A (TO MMCA-2) K. SCHMECKPEPER ITY REDUNDANCY SCREENS TNC A B C [P] [P] [P]

ASSESSMENT ID: NASA FMEA #:	EPD&C-544	13	NASA DATA BASELINE NEW									
	EPD&C 5443 RPC, 5A (TO MMCA-4)									
LEAD ANALYST:	к. всниес	KPEPER										
ASSESSMENT:												
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM												
HDW/FU	NÇ A	В	C									
NASA [3 /1R IOA [3 /3] [P)] [P]] []	[X] *								
COMPARE [/N] [N	и] [и] [N]	[N]								
RECOMMENDATIONS:	(If dif	ferent fro	om NASA)									
[/] [] [[] DD/DELETE)								
CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE []												
IOA CONCURS WITH	NASA - IO	A UNAWARE	OF "PSYCHOTIC GPO	C" PROBLEM.								

ASSESSME	ASSESSMENT DATE: 12/17/87 ASSESSMENT ID: EPD&C-5444 NASA FMEA #: 05-6-2803-1														DATA: LINE NEW	[x]		
SUBSYSTE MDAC ID:	M:			54	D&C 44 C, 5	5A	(1	O	MM	CA-	-4))								
LEAD ANA	LYS	ST:	:	ĸ.	SCI	IMI	ECI	KPI	EPEI	₹	7	- :								
ASSESSME	NT	:																		
	CR		ICAL		•		RI	EDU	JND	ANC	ŻY	SC	REEN	S				CL CEN	ſ	
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NASA IOA			/1R /1R]	P P]		[P P]	[P P]		[[X X]	*
COMPARE	[/	1		[]	a F	[]	Ć]		[]	§
RECOMMEN	IDA!	rI(ons:		(If	d.	if	fe	ren	t :	Êro	om.	NASA	۲)		. 14		···		- 5
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REMARKS:

ASSESSMENT DATE: 12/15/87 ASSESSMENT ID: EPD&C-5445 NASA FMEA #: 05-6-2010-1											. •		ASA BASE	LIN		[X]	er .	
SUBSYSTEM MDAC ID: ITEM:	M:		EPD&C 5445 FUSE,		502	A TO	AP	CA:	-3											
LEAD ANAI	LYSI	!:	K. SC	HMI	ECI	KPEPI	ER													
ASSESSME	NT:																			
C	F	LIGH				EDUNI	DAN		so	CREE	NS		•				[L [EN	1		
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NASA IOA	[3	/1R /1R]]	P P]]	P F]		[[P P]			[[x]]	*	
COMPARE	[/]	[]	[N]		[]			[N]		
RECOMMENI	DATI	ons:	(If	ď	Ĺfí	ferer	nt	fr	om	NAS	A)									
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* CIL RET	rent	'ION I	RATION	ALI	Ξ:	(If	ap	pl:	ica			AI IAI	DEQU DEQU	ATE ATE	<u> </u>]]		
IOA CONCU	JRS	WITH	NASA '	THA	Υ	SCRE	EEN	**]	В"	IS	PA	SS	5.							

ASSESSMENT ASSESSMENT NASA FMEA	ID:	12/07/ EPD&C- 05-6-2	-544	5		man and a second		NASA DAT BASELIN NE		x]	
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5446 FUSE,	1002	A TO A	LCA-	-3						
LEAD ANALY	ST:	K. SCF	IMEC	KPEPEF	2							
ASSESSMENT	! :											
CF	RITICAL FLIGH		R	EDUNDA	NCY	SCREI	ens			IL TEN	4	
	HDW/FU		A		В		•	С				
NASA [IOA [3 /1R 1 /1]]	[P]	[P [F]	[P] F]	[x]	*
COMPARE [N /N]	[]	[N]	[N]	ſ	N]	
RECOMMENDA	TIONS:	(If	dif	ferent	fr	om NAS	SA)	•				
Ţ	. /]	[]	[]	[] ([ADD	/DI		ete)
* CIL RETE	ENTION	RATION	ALE:	(If a	appl	icable		ADEQUATE ADEQUATE]	
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ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5447 NASA FMEA #: 05-6-2351-1									NASA DATA: BASELINE [] NEW [X]							
SUBSYST MDAC ID ITEM:				EPI 54 RE	47		1.8	K 1/4	IW (I	'0 SI	G COND	OAS	3)			
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SUBSYSTE MDAC ID: ITEM:	M:		EPD&C 5448 RESIS		1.2	K 2W	(TO A	PCA-	6)		
LEAD ANA	LYS'	T:	K. SC	HMEC	KPEP	ER					
ASSESSME	NT:										
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	H	DW/FU	NC	A		В		С			
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COMPARE	[/]	[]	[11]	[]	[]
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SUBSYSTI MDAC ID: ITEM:				EPI 544 RES	18	R, 1	.2K 21	W (TC	APC	A-6)				
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-54	EPD&C-5449 BASELINE 05-6-2651-1 NEW								
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5449 SWITCH,	TOGGLE	SPST (MC	A LOGIC MN C	AFT 3)					
LEAD ANALYST:	K. SCHME	ECKPEPER	<u>.</u>							
ASSESSMENT:										
CRITICAL FLIGH	ITY T	REDUNDA	ANCY SCRE	ENS	CIL ITEM					
HDW/FU		A	В	C						
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SUBSYSTE MDAC ID: ITEM:	M:		EPD&C 5450 SWITC		OGGLE	SPS	T (MC	CA L	OGIC	MN C	AFT	3)
LEAD ANA	LYS'	T:	K. SC	HMEC	KPEPE:	R						
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MDAC ID:	EPD&C 5451 RPC, 5A	(TO AMC	A-3)		
LEAD ANALYST:	K. SCHME	CKPEPER			
ASSESSMENT:					
CRITICAL FLIGH		REDUNDA	NCY SCRI	EENS	CIL ITEM
	NC 2	A	В	С	TILH
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RECOMMENDATIONS:	(If di	fferent	from NA	ASA)	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/06/87 EPD&C-5452 05-6-2801-		NASA DATA BASELINE NEW	: [x]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5452 RPC, 5A (T	O AMCA-3)	_== =**	and the state of t
LEAD ANALYST:	K. SCHMECK	PEPER		
ASSESSMENT:				e e
CRITICAL: FLIGHT HDW/FUI	r	DUNDANCY SCREE	ens C enema	CIL
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LEAD ANA	LYS	T:	K. S	HME	ECI	KPEPI	ER									
ASSESSME	NT:															
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SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5454 SWITCH, T	OGGLE 3PD	T (ESS	BUS SOURCE	MAIN	I B/C
LEAD ANALYST:	K. SCHMEC	KPEPER				
ASSESSMENT:						
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* CIL RETENTION	RATIONALE:	(If appl		ADEQUATE	[]
REMARKS:			-		L	J

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/01/88 EPD&C-5455 05-6-2214-		NASA DATA BASELINE NEW	
	EPD&C 5455 SWITCH, TO	OGGLE 3PDT (ES	S BUS SOURCE	MAIN B/C)
LEAD ANALYST:	K. SCHMECE	KPEPER		
ASSESSMENT:				
CRITICALI FLIGHT HDW/FU	r	EDUNDANCY SCRE B	ENS C	CIL ITEM
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RECOMMENDATIONS:	(If dif	ferent from NA	SA)	
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SUBSYSTE MDAC ID: ITEM:			EPD&C 5455 SWITCH	H, T	OGGLE	3PD	r (ES	s Bus	S SOURCE	. M2	AIN	B/C)
LEAD ANA	LYS	r:	K. SCI	MEC	KPEPE	R						
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SUBSYSTEM MDAC ID: ITEM:		EPD&C 5456 RESIS	ror,	1.2	K 2W	(TO	ESS B	US 1BC)					
LEAD ANAI	LYST:	K. SC	HMEC	KPEP	ER								
ASSESSMEN	NT:												
(CRITICAL		R	EDUN	DANCY	SCR	EENS		CIL				
	FLIGH HDW/FU		A		В	ı	С		ITEM				
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SUBSYST: MDAC ID ITEM:			EPD 545 RES		5.1	LK 1/4	W TO	MDM (OF4				
LEAD AN	ALY	ST:	K. :	SCHMEC	KPE	PER							
ASSESSM	ENT	:											
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-545	9		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	5459	OGGLE 3P	DT (ESS	BUS SOURCE	F/C 1)
LEAD ANALYST:	K. SCHMEC	KPEPER			
ASSESSMENT:					
CRITICAL: FLIGHT	ITY Ř	EDUNDANC	Y SCREEN	s	CIL ITEM
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SUBSYSTEM: EPD&C MDAC ID: 5459 ITEM: SWITCH, TOGGLE 3PDT (ESS BUS SOURCE F/C 1) LEAD ANALYST: K. SCHMECKPEPER ASSESSMENT: CRITICALITY REDUNDANCY SCREENS CIL	
ASSESSMENT: CRITICALITY REDUNDANCY SCREENS CIL	
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ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-5461 NASA FMEA #: 05-6-2338-1 SUBSYSTEM: EPD&C MDAC ID: 5461 ITEM: RESISTOR, 1.8K LEAD ANALYST: K. SCHMECKPEPER							W (T			INE]	
LEAD ANA	LYST	:	K. S	CHMEC	KPEP	ER							
ASSESSMI	ENT:												
	CRIT	ICAI	ITY	F	REDUN	DANCY	SCR	EENS			CIL		
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LEAD A	NALY	ST	:	K. S	CHMEC	KPEF	PER						
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-54	65		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5465 DIODE, B	LOCKING			
LEAD ANALYST:	K. SCHME	CKPEPER			
ASSESSMENT:					
CRITICAL FLIGH	CIL ITEM				
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ASSESSME ASSESSME NASA FME	NT I	D:	6/04/ EPD&C 05-6-	-546			1	NASA DA' BASELI N	NE []	
SUBSYSTE MDAC ID: ITEM:	M:		EPD&C 5466 DIODE		оскі	NG			i e		
LEAD ANA	LYST	':	K. SC	CHMEC	KPEF	ER					
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SUBSYSTEM MDAC ID: ITEM:			EPD& 5467 RPC,		TO M	DCA #1	. – 1	ess 1	BUS 1BC			
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LEAD ANA	LYST	r:	K. SC	HMEC	KPEF	ER						
ASSESSME	NT:											
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SUBSYSTE MDAC ID: ITEM:	M:		EPD& 5471 RESI		1.8	K 1/4	W (T	o MDI	4 OF3)			
LEAD ANA	LYST	:	ĸ. s	CHMEC	KPEP	ER						
ASSESSME	NT:											
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SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5472 RESIS		.2K 1/2	2W (T	MDM C	(OF3)		
LEAD ANALYST	: K. SC	HMECKP	EPER					
ASSESSMENT:								
CRIT F		CII						
HD	W/FUNC	A	1	3	C	3		
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SUBSYSTE MDAC ID:	M:		EPD&C 5473 DIODE	, IS	OLAT:	ION ('	CA-3	- ES	s Bī	JS 1	BC)			
LEAD ANA	LYST	:	K. SCI	HMEC	KPEP	ER		-						
ASSESSME	NT:													
		ICAL LIGH		R	EDUN	DANCY	SCRE	ENS			CIL			
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SUBSYSTE MDAC ID:			EPD&C 5474 DIODE		SOLAT	ION	(TO M	PCA-:	3 - ESS	BUS	1BC)			
LEAD ANA	LYS'	r:	K. SC	HMEC	KPEP	ER								
ASSESSME	NT:													
		rical		F	REDUN	DANC	SCR	EENS		CI				
		FLIGH DW/FU		A		I	3	(1T	ITEM				
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SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5475 DIODE, BLOC	KING							
LEAD ANALYST:	K. SCHMECKP	EPER							
ASSESSMENT:									
CRITICAI FLIGH		UNDANCY SCREE	ns	CIL ITEM					
HDW/FU		В	С						
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LEAD ANA	LY	ST	:	K.	SCHME	CKPE	PER				-		
ASSESSMI	ENT	:											
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CRITICAL FLIGH HDW/FU						A]	В	(3	ITI	im.	
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	EPD&C 5477 DIODE, ISOLAT	ION 35A (ESS BUS I	.BC)						
LEAD ANALYST:	K. SCHMECKPEP	ER							
ASSESSMENT:									
CRITICALI FLIGHT HDW/FUN	T	DANCY SCREENS B C	CIL ITEM						
NASA [3 /1R IOA [3 /1R] [P]	[F] [P] [F]	[X] *						
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5478		NASA DATA: BASELINE NEW							
	EPD&C 5478 DIODE, ISOLATIO	N 35A (ESS	BUS 1BC)							
LEAD ANALYST:	K. SCHMECKPEPER									
ASSESSMENT:										
CRITICALI FLIGHT	TY REDUNDA	NCY SCREENS	3	CIL ITEM						
	NC A	В	c							
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	12/15/87 EPD&C-547 05-6-2186		NASA DATA: BASELINE [] NEW [X]							
	EPD&C 5479 DIODE, IS	SOLATION	35A (ESS	BUS 1BC)						
LEAD ANALYST:	K. SCHME	CKPEPER	We want							
ASSESSMENT:										
CRITICAL		REDUNDANC	CY SCREENS	3	CIL ITEM					
FLIGH HDW/FU		A	В	С						
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REMARKS: IOA CONCURS WITH CONCERNS.	THE NASA	REEVALU	ATION DUE	TO FUEL C	ELL SAFING					

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SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5480 DIODE		TION 35A (1	ESS BUS 1BC)						
LEAD ANALYST:	K. SC	нмескрег	ER							
ASSESSMENT:										
FI	CALITY LIGHT V/FUNC	REDUN A	eens C	CIL ITEM						
NASA [3 IOA [3	/1R] /1R]	[P]	[F] [F]	[P] [P]	[X] *					
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LEAD ANA	LYST:		K. SCI	imec:	KPEPE	R				* *	
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	6/04/87 EPD&C-5483 05-6-2186		NASA DATA BASELINE NEW	
	EPD&C 5481 DIODE, ISC	OLATION 35A	(ESS BUS 1BC)	
LEAD ANALYST:	K. SCHMEC	KPEPER		
ASSESSMENT:				
CRITICALI FLIGHT HDW/FUN	ŗ	EDUNDANCY S	CREENS	CIL
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NASA FMEA #: 05-6-2186-3 SUBSYSTEM: EPD&C 5481 ITEM: DIODE, ISOLATION 35A (ESS BUS 1BC) LEAD ANALYST: K. SCHMECKPEPER ASSESSMENT: CRITICALITY REDUNDANCY SCREENS CIL ITEM FLIGHT HDW/FUNC A B C NASA [3 /1R] [P] [P] [P] [] * COMPARE [/] [] [] [] [] * RECOMMENDATIONS: (If different from NASA) [/] [] [] [] [] [] (ADD/DELETE * CIL RETENTION RATIONALE: (If applicable)																				
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SUBSYSTEM MDAC ID:	:		548 DIC	DE,					35	A ((ESS	5 I	BUS	5 1BC)						
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MDAC ID:	EPD&C 5486 FUSE, 10A	TO ESS BU	s 1BC		
LEAD ANALYST:	K. SCHMECI	KPEPER			
ASSESSMENT:					
CRITICAL FLIGHT HDW/FUI	r	EDUNDANCY B	SCREENS C		CIL
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	EPD&C 5488 FUSE, 3A	TO SIG	G COND	/MDM M	ONITOR		
LEAD ANALYST:	K. SCHMEC	KPEPEF	2				
ASSESSMENT:							
CRITICAL: FLIGHT		EDUNDA	ANCY S	CREENS		CII	
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LEAD ANA	LYS	ST:	:	K. 8	SCF	IMI	ECI	(PEPI	ER										
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:						BASELIN NE		x]
	EPD&C 5490 FUSE, 5A							
LEAD ANALYST:	K. SCHMEC	KPEPE	R					
ASSESSMENT:								
CRITICAL		EDUND	ANCY	SCREI	ens		CI	
FLIGHT HDW/FU			В		С		ITI	em
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SUBSYSTE MDAC ID: ITEM:			EPD&C 5491 FUSE,	107	ı ı	O M	L86B	PANE	L					
LEAD ANA	LYST	:	K. sc	HME	CKE	PEPE	R							
ASSESSME	NT:													
	CRITI	[CAL] LIGH		I	REI	OUND.	ANCY	SCRE	ENS			CIL		
			ИС	1	A		В			С				
NASA IOA	[3 [3	/1R /1R]	[]	P]		[P]	[P] P]		[] *	t
COMPARE	[/]	[]	1	[]	[1		[]	
RECOMMEN	IDATIO	ons:	(If	di	ffe	eren	t fr	om NA	SA)					
	[/]	[•]	[.]	[]	(A	[DD/D		ΓE)
* CIL RE	TENT:	ION	RATION	ALE	: ((If	appl	icabl		ADEQUA IADEQUA]	
REMARKS:	:											·	,	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:			NASA I BASEI	DATA: LINE [] NEW [X]
MDAC ID:	EPD&C 5492 FUSE, 15A	TO MPCA-1		
LEAD ANALYST:	K. SCHMECK	PEPER		•• • • • • •
ASSESSMENT:				
FLIGHT				CIL ITEM
HDW/FU	VC A	В	C	
NASA [2 /1R IOA [3 /1R] [P]] [P]] [F]	[P] [P]	[X] * [X]
COMPARE [N /] [] [и]	[]	[]
RECOMMENDATIONS:	(If diffe	erent from	NASA)	. The second second
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* CIL RETENTION F	RATIONALE:	(If applic	able) ADEQUA INADEQUA	
IOA CONCURS WITH CONCERNS.	NASA'S REE	VALUATION	DUE TO FUEL	CELL SAFING

ASSESSME ASSESSME NASA FME	NT I		EPD	5/87 kC-549: 5-2300				N	ASA DAT BASELIN NE		[]	
SUBSYSTE MDAC ID:			EPD& 5493 FUSI									
LEAD ANA	LYST	:	к. s	SCHMEC:	KPEF	ER						
ASSESSME	NT:											
•	CRIT	ICAI LIGH		R	EDUN	IDANCY	SCR	EENS		CII		
		W/FU		A		В		C	2			
NASA IOA	[3 [3	/3 /3]	[]	[]	[[]	[[]	*
COMPARE	[/]	[]	[]	[]	[]	
RECOMMEN	IDATI	ONS:	(If dif	fere	ent fr	om N	(ASA)				
	Ţ	/]	[]	[]	[3	[(ADD/1	DELE	TE
* CIL RI		ON	RATI	ONALE:	(11	f appl	icab	1	ADEQUATI ADEQUATI]	
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ASSESSMEN ASSESSMEN NASA FMEA	T ID:	EPD&C-	549	4				ASA DAT BASELIN NE				
SUBSYSTEM MDAC ID:	I :	EPD&C 5494 FUSE,				1 & F	LCA1				•	
LEAD ANAL	YST:	K. SCH	MECI	KPEPE	R							
ASSESSMEN	T:											
c	RITICAL: FLIGH		RI	EDUND	ANCY	SCRE	ENS			IL TEN	4	
	HDW/FUI	4C	A		В		С					
NASA IOA	[3 /1R [3 /1R]	[P [P]	[NZ [F	A]]	[P]	[x]	*
COMPARE	[/]	[]	[и]	[1	(N]	
RECOMMEND	ATIONS:	(If	dif	feren	t fro	om NA	SA)					
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* CIL RET	ENTION I	RATIONA	LE:	(If	appl	icable	- Table	DEQUATE DEQUATE	[]	
REMARKS: IOA CONCU	RS WITH	NASA'S	SCF	REEN	"B".		/-	~ - -	·		,	

assessmi Assessmi Nasa FMI	ENT I		EPD	7/06/87 NASA DATA: CPD&C-5495 BASELINE [] 05-6-2279-1 NEW [X]											
SUBSYSTI MDAC ID: ITEM:			EPD8 5495 FUSI	5	0 A	то	R15	P#	NEL						
LEAD AN	ALYST	:	K. 5	CHM	EC)	KPEP	ER								
ASSESSMI	ent:														
	CRIT	ICAL LIGH			R	EDUN	DANC	Y	SCR				CIL		
	HD	W/FU	NC		A			В		(2				
NASA IOA	[3 [3	/1R /1R]	[P P]	[[P F]	[] []	P]		[X] ;	*
COMPARE	[/]	[]	[N]	[]		[N]	
RECOMME	NDATI	ons:	(:	If d	if	fere	nt f	r	om N	ASA)					
	[/]	[]	[]	[]	(A	[DD/D		TE)
* CIL R		NOI	RATI(ONAL	E:	(If	app	1:	icab	2	ADEQU ADEQU		[]	
IOA CON		WITH	NAS.	A'S	sc	REEN	1 "B"	•							

ASSESSME ASSESSME NASA FME	6/13/87 EPD&C-5496 05-6-2605-1						NASA DATA: BASELINE [] NEW [X]						
SUBSYSTEM MDAC ID:			EPD&C 5496 FUSE,	7	. 52	A							
LEAD ANA	LYS	T:	K. SC	HMI	ECI	KPEPI	ER						
ASSESSME	NT:												
(TICAL: FLIGH			RI	EDUNI	DAI	1CY	SCRE	EN	S	CIL ITEM	
	H	DW/FUI	NC		A			В			C		
NASA IOA	[:	3 /1R 3 /1R]	[[P P]		F P]	[P] P]	[X] *	
COMPARE	[/]	[]	1	N]	[]	[N]	
RECOMMEN	DAT:	ions:	(If	đ	Ĺfí	ferer	nt	fr	om NA	SA))		
	[/]	[]	ı	•]	[]	[ADD/DELETE)	
* CIL RE	ren'	rion i	RATION	ALI	2:	(If	aŗ	pl:	icabl	•	ADEQUATE NADEQUATE		
REMARKS:	TDS	שדייש	NASAI	2 (CE	oren	11 7	3 11		11	MADEQUATE	[]	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:					A DATA: SELINE NEW	-						
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5497 RESISTOR,	5.1K 1/	4W (TO	ESS 1	BC MONI	TOR)						
LEAD ANALYST:	K. SCHMEC	KPEPER										
ASSESSMENT:												
CRITICALITY REDUNDANCY SCREENS CIL ITEM												
HDW/FU			В	С		I I EM						
NASA [/ IOA [3 /3] [] []	[]			*					
COMPARE [N /N] [] []	[]		(:	1					
RECOMMENDATIONS:	(If dif	ferent f	rom NA	.SA)								
[/] [] []	[]	(AD	[D/DE						
* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [] INADEQUATE []												
REMARKS: THIS COMPONENT H POINT. THEREFOR CONCURS.	IAS NO CONN RE NASA DID						A TEST					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/06/87 EPD&C-5498 05-6-2385-3			NASA DATA BASELINE NEW]
	EPD&C 5498 RPC, 15A (ro ess bu	s 1BC)			
LEAD ANALYST:	K. SCHMECKI	PEPER	ī			
ASSESSMENT:						
CRITICAL: FLIGH		DUNDANCY	SCREENS	3	CIL	
HDW/FUI		В		С	111	-
NASA [3 /3 IOA [3 /3] []] [] [] []	[] *]
COMPARE [/] [:] [] []	[]
RECOMMENDATIONS:	(If diffe	erent fro	m NASA)			÷ .
[/	1 [:] [] [[.DD/D] ELETE)
* CIL RETENTION 1	RATIONALE:	(If appli		ADEQUATE	[]
REMARKS:			IN	IADEQUATE	[]

ASSESSME ASSESSME NASA FME	NT ID:	EPD&	/87 C-5499 -2385-1			NASA DATA: BASELINE [] NEW [X]					
SUBSYSTE MDAC ID: ITEM:	M:	EPD& 5499 RPC,		O ESS	BUS 1	BC)					
LEAD ANA	LYST:	K. S	CHMECKP	EPER					· •		
ASSESSME	NT:										
	CRITIC!		RED	UNDANC	Y SCR	EENS		CI			
	HDW/I					C	3				
NASA IOA	[3 /3	3] 3]	[]	[]	[]	[] *]		
COMPARE	[/]	[]	[]	[1	[]		
RECOMMEN	DATIONS	S: (1	f diffe	rent f	rom N	ASA)					
	[/]	[]	[]	[]	[(ADD/] DELETE)		
* CIL RE		N RATIO	ONALE: (If app	licab	1	ADEQUAT ADEQUAT]		
REMARKS:											

ASSESSME ASSESSME NASA FME	NT I	D:		-550				_	ASA DAT BASELIN NE		,]
SUBSYSTEMDAC ID:	M:		EPD&C 5500 RESIST	ror,	5.1K	(ES	s BUS	1BC	VOLTAG	E)	
LEAD ANA	LYST	! :	K. SCI	HMECI	KPEPE	R					
ASSESSME	NT:										
•		'ICAL	ITY	RI	EDUND	ANCY	SCRE	ENS		CII	
	NC	A		В		C		TTE	M		
NASA IOA	[3 [3	/3 /3]] []	[]]]]] *
COMPARE	[/]	[]	[]	[]	[]
RECOMMEN	DATI	ons:	(If	dif	feren	t fr	om NA	SA)			
	[/]	[]	C]	[] (.	[ADD/E] DELETE)
* CIL RE	PENT	ION I	RATIONA	ALE:	(If	appl:	icabl	A	DEQUATE DEQUATE	•]
REMARKS:						TIM	OPCOVIE	Ĺ	1		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/06/87 EPD&C-5501 05-6-2291-1		NASA DATA: BASELINE [] NEW [X]				
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5501 FUSE, 7.5A T	O ALCA-1 (MP					
LEAD ANALYST:	K. SCHMECKPE	PER					
ASSESSMENT:							
CRITICAL FLIGH HDW/FU	T	INDANCY SCREET B	ns C	CIL ITEM			
NASA [3 /1R IOA [3 /1R		[F] [F]	[P] [P]	[X] *			
COMPARE [/] []	[]	[]	[]			
RECOMMENDATIONS:	(If differ	ent from NAS	A)				
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* CIL RETENTION REMARKS:	RATIONALE: (I	- -) ADEQUATE INADEQUATE	[X]			

ASSESSME ASSESSME NASA FME	-550]	NASA D BASEI		[k]			
SUBSYSTE MDAC ID: ITEM:			EPD&C 5502 DIODE	, IS	OLAT:	ION 3	35 A ('	ro es	ss Bus	1B	C)	
LEAD ANA	LYS	T:	K. SC	HMEC	KPEP	ER						
ASSESSME	NT:											
		TICAL FLIGH	ITY T	R	EDUN	DANCY	SCR	EENS			CII	
	HDW/FUNC						В		C			
NASA IOA]	3 /3 3 /3]	[]	[[]]]		[[] *]
COMPARE	[/]	[]	[.]	[]		[j
RECOMMEN	DAT	ions:	(If	dif	fere	nt fr	om N	ASA)				
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* CIL RE	TEN'	TION :	RATION	ALE:	(If	appl	icab]	7	ADEQUA ADEQUA	TE]
REMARKS:											L	J

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/17/87 EPD&C-5502A 05-6-2191-3		NASA DATA: BASELINE [] NEW [X]							
	EPD&C 5502 DIODE, ISOLA	TION 35A (TO I	ESS BUS 1BO	C)						
LEAD ANALYST:	K. SCHMECKPE	PER								
ASSESSMENT:										
CRITICAL FLIGH		NDANCY SCREENS		CIL ITEM						
HDW/FU	NC A	В	С	-						
NASA [3 /1R IOA [3 /1R] [P]] [P]	[F] [[F] [P] P]	[X] * [X]						
COMPARE [/] []	[] []	[]						
RECOMMENDATIONS:	(If differ	ent from NASA)							
[/] []	[] [] (A	[] DD/DELETE;						
* CIL RETENTION	RATIONALE: (1		ADEQUATE NADEQUATE	[X]						

REMARKS:

ASSESSMENT ASSESSMENT NASA FMEA #	ID:	EPD&C-	550			NASA DATA: BASELINE [] NEW [X]							
SUBSYSTEM: MDAC ID: ITEM:		EPD&C 5503 DIODE,	ISC	OLATIO	n :	35.	A (TO	ES	s BUS 1B	C)			
LEAD ANALYS	T:	K. SCH	MECI	KPEPER									
ASSESSMENT:													
	CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM												
	DW/FUI		A		1	в с				Ψ.	L	•	
NASA [IOA [3 /1R 3 /3]	[F]	[]	F]	[P]		X		*
COMPARE [/N]	[N]	[]	N]	[N]	[N]	
RECOMMENDAT	ions:	(If	difi	ferent	fı	roı	m NAS	A)					
ĵ	/]	[]	[]	[] (A	[DD,	/DI] ELE	ETE)
	CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE []												
REMARKS: IOA CONCURS OF THE PREF		NASA DUE TO CONCE TEST BUS.					S ABO	UT :	INADVERT	ENT	r e	POW	ERING

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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		NASA DATA: BASELINE [] NEW [X]						
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5504 DIODE, ISOLATION	35A (TO ESS BUS 1B	C)					
LEAD ANALYST:	K. SCHMECKPEPER	e i Britania de la compansión de la comp	<u></u>					
ASSESSMENT:								
CRITICAL		CY SCREENS	CIL ITEM					
FLIGH HDW/FU		В С						
NASA [3 /1R IOA [3 /3	[F] [F] [F] [P]	[X] *					
COMPARE [/N] [и] [[и] [и]	[и]					
RECOMMENDATIONS:	(If different	from NASA)						
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* CIL RETENTION	RATIONALE: (If ap	oplicable) ADEQUATE INADEQUATE	-					
REMARKS: IOA CONCURS WITH OF THE PREFLIGHT		CERNS ABOUT INADVERT	ENT POWERING					

ASSESSME ASSESSME NASA FME	ID:	6/04/ EPD&C 05-6-	- 550	_		NASA DATA: BASELINE [] NEW [X]							
SUBSYSTE MDAC ID:	M:		EPD&C 5505 DIODE		OLAT	5 1B	 C)						
LEAD ANA	LYS'	T:	K. SC	HMEC	KPEP	ER							
ASSESSME	NT:												
			ITY	R	EDUN	DANC	SCR	EENS			CI		
FLIGHT HDW/FUNC				A			3	(2		ITEM		
NASA IOA	[]	3 /3 3 /3]	[]	[]	[]]] *	
COMPARE	[/]	[]	[J	[]		[]	
RECOMMEN	DAT:	ions:	(If	dif	fere	nt fr	om N	ASA)					
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* CIL RE	TEN'	rion :	RATION	ALE:	(If	appl	icab	A	ADEQUA ADEQUA		[]	
REMARKS:								J. 112	.prgon		L	J	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:			NASA DATA: BASELINE [] NEW [X]							
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5505 DIODE, ISOLATIO	ON 35A (TO ESS	BUS 1BC)							
LEAD ANALYST:	K. SCHMECKPEPE	and the second of the second o	. (* 4/ 2							
ASSESSMENT:	7.70									
CRITICAL: FLIGHT HDW/FUI	r	ANCY SCREENS B C	CIL							
NASA [3 /1R		_	1 [X]*							
IOA [3 /1R] [P]] [P]	[F] [P [F] [P] [X] *] [X]							
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RECOMMENDATIONS:	(If differen	t from NASA)								
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* CIL RETENTION REMARKS:	RATIONALE: (If	AI	DEQUATE [X] DEQUATE []							

ASSESSMENT I ASSESSMENT I NASA FMEA #:	ID: H	5/06/87 EPD&C-5 05-6-24	506			NASA DATA: BASELINE [] NEW [X]					
SUBSYSTEM: MDAC ID: ITEM:	5	EPD&C 5506 HYBRID	DRIVER	TYPE	I (ES	s Bu	JS 1BC)				
LEAD ANALYST	r: 1	K. SCHM	ECKPEPE	R							
ASSESSMENT:											
F	ricalii Flight		REDUND	ANCY	SCREE	èns		CII			
HI	W/FUNC		A	В		С					
NASA [3	3 /3] 3 /3]] [] []	[]	[]	[] *		
COMPARE [/]	Ι []	[]	[]	[]		
RECOMMENDATI	ons:	(If d	ifferen	t fro	om NAS	A)					
C	/]	Ι [1	[]	[[ADD/D] ELETE)		
* CIL RETENT	TION RA	ATIONAL	E: (If	appli	cable	AI	EQUATE]		
REMARKS:						TIME	PAOUIE	L	j		

ASSESSME ASSESSME NASA FME	NT	ID		EPD	6/87 &C-5507 6-2482-				ASA I BASE		[
SUBSYSTE MDAC ID:	M:			EPD 550 HYB		(VER	TYPE	I (ESS E	ous 1	BC)			
LEAD ANA	LYS	T:		K.	SCHMECI	KPEP	ER					-		
ASSESSME	NT:	:												
	CRI		CAL	TTY T	RI	EDUN	IDANCY	SCR	EENS	-		CIL		
	F			NC	A		В		C	2				
NASA IOA	[3 3	/3 /3]	ĵ []	[]	[]		[]	*
COMPARE	[/]	Ţ]	[]	[]		[]	
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y digital di sidi	.		/]	[]	[]	[]	(A	[DD/I		ETE)
* CIL RE	TE	LTN	ON	RATI	ONALE:	(If	f appl	icak	7	ADEQU ADEQU		[]	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-550		NASA DATA: BASELINE [] NEW []							
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5508 RESISTOR,	5.1K (E	SS BUS	1BC TEST	POINT)	· · · · - · · · ·				
LEAD ANALYST:	K. SCHMEC	KPEPER								
ASSESSMENT:										
CRITICAL: FLIGHT		EDUNDANC	Y SCREE	ins	CIL					
	NC A		В	С	1157	1				
NASA [/ IOA [3 /3] [] []	[]	[[] *				
COMPARE [N /N] [] []	[]	[]				
RECOMMENDATIONS:	(If dif	ferent f	rom NAS	3 A)						
L , , , , ,] [] []	[]	[ADD/DI] ELETE)				
* CIL RETENTION I	RATIONALE:	(If app	licable	e) ADEQUATI INADEQUATI]				
REMARKS: THIS COMPONENT HAPOINT. THEREFORE CONCURS.	AS NO CONNI E NASA DID			T HARDWARE	OR IS					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/08/87 EPD&C-5509 05-6-2702-1		: [x]			
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5509 RESISTOR, 1.2K	2W (TO APCA	- 5)			
LEAD ANALYST:	K. SCHMECKPEPE	R				
ASSESSMENT:						
CRITICAL FLIGH HDW/FU	T	ANCY SCREENS B	c	CIL		
•	[P]	[F] [[F]	P] P]	[X] *		
COMPARE [/] []	[] []	[]		
RECOMMENDATIONS:	(If differen	t from NASA)	•			
, <u>.</u>] []	[] [] (A	[] DD/DELETE		
* CIL RETENTION	RATIONALE: (If		ADEQUATE ADEQUATE	[X]		

REMARKS:

ASSESSMI ASSESSMI NASA FMI	ENT	I	D:	EPD	08/87 &C-550 6-2702			NASA DATA: BASELINE [] NEW [X]									
SUBSYSTI MDAC ID: ITEM:				EPD 550 RES		1.2	2K 2W	OT)	APCA-	-5)							
LEAD AN	ALY	ST	:	K.	SCHMEC	KPEF	PER										
ASSESSMI	ENT	:															
	CR		ICAL LIGH	ITY T	R	EDUN	IDANCY	SCR	REENS			IL TEM	I.				
]	HD'	W/FU	NC	A		B	}	(C							
NASA IOA	[3	/3 /3]	[]	[]] []	[]	*			
COMPARE	[/]	[]	[]	. [1	[]				
RECOMMEN	NDA'	ΓI	ons:	(If dif	fere	ent fr	om N	ASA)	-							
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* CIL RI	ETEI	NT:	ION	RATI(ONALE:	(If	appl	icab	7	ADEQUAT	_]				

REMARKS:

	6/06/87 EPD&C-5510 05-6-2652-1	NASA DATA: BASELINE [] NEW [X]							
	EPD&C 5510 SWITCH, TOGG	LE SPST (AFT POD VLV	LOGIC GRP 1/2)						
LEAD ANALYST:	K. SCHMECKPE	PER							
ASSESSMENT:									
CRITICAL FLIGH		NDANCY SCREENS	CIL ITEM						
HDW/FU	NC A	В С							
NASA [3 /1R IOA [3 /1R] [P]] [P]	[F] [P]	[X] *						
COMPARE [/] []	[] []	[]						
RECOMMENDATIONS:	(If differ	ent from NASA)							
[/] []	[] []	[] (ADD/DELETE)						
* CIL RETENTION	RATIONALE: (I	ADEQUA'							
REMARKS:		INADEQUA	re []						

ASSESSME ASSESSME NASA FME	NT]	ID:	6/06, EPD&6 05-6-	C-551			NASA DATA: BASELINE [] NEW [X]							
SUBSYSTE MDAC ID:			EPD&0 5511 SWITO		roggl:	DD VLV	LOGIC	GRP 1/2)						
LEAD ANA	LYST	r:	K. S	CHMEC	CKPEP	ER								
ASSESSME	NT:													
											CIL ITEM			
	FLIGHT HDW/FUNC			A	1	. 1	В		3	TTE	.M			
NASA IOA	[3	3 /3]	[]]]	[]]] *]			
COMPARE	[/]	[]	[]	[]	[]			
RECOMMEN	DATI	cons:	(11	dif	fere	nt fi	om N	ASA)	Tall Elling		1 Fig.			
	[/]	[]	[]	[]	[(ADD/D] ELETE)			
* CIL RE	TENT	NOI	RATION	IALE:	(If	app]	icab.	7	DEQUAT	_]			

ASSESSMENT I ASSESSMENT I NASA FMEA #:	D: EPD&C-			NASA DAT. BASELIN NE	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5512 RPC, !	5A (TO RCS	/OMS BC	BUS)	
LEAD ANALYST	: K. SCI	MECKPEPER	1		
ASSESSMENT:					
I	CICALITY CLIGHT W/FUNC	REDUNDA A	NCY SCRE	EENS C	CIL ITEM
NASA [3	/1R] /1R]	[P] [P]	[F] [F]	[P] [P]	[X] * [X]
COMPARE [/]	[]	[]	[]	[]
RECOMMENDAT	ONS: (If	different	from NA	ASA)	
[/]	[]	[]	[] ([] ADD/DELETE
* CIL RETEN	TION RATION	ALE: (If a	applicabl	le) ADEQUATE INADEQUATE	•

REMARKS:

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LEAD ANA	ALYS	ST:	K.	SCHMEC	KPEP	ER								
ASSESSME	ENT:	:												
CRITICALITY FLIGHT HDW/FUNC										CII				
NASA IOA	[3 /3 3 /3]	[]	[]	[]	[] *]			
COMPARE	[/]	[]	[]	ſ]	[]			
RECOMMEN	IDAI	IONS	: (If dif	fere	nt fi	com N	(ASA)						
	[/]	Ţ	J	Ţ	3	[] ([ADD/I] DELETE)			
* CIL RE		TION	RATI	ONALE:	(If	app]	licab		ADEQUATE ADEQUATE					

	12/17/87 EPD&C-5514 05-6-2902-		NASA DAT BASELIN NE	
MDAC ID:	EPD&C 5514 DIODE, 12A	(TO RCS/O	MS BC BUS)	
LEAD ANALYST:	K. SCHMECK	PEPER		
ASSESSMENT:				
CRITICALI FLIGHT		DUNDANCY S	CREENS	CIL ITEM
HDW/FUN		В	С	
NASA [3 /1R IOA [3 /1R] [P] [P] [F]] [F]	[P] [P]	[X] * [X]
COMPARE [/] [] []	[]	[]
RECOMMENDATIONS:	(If diff	erent from	NASA)	
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* CIL RETENTION H	RATIONALE:	(If applic	able) ADEQUATE INADEQUATE	
REMARKS:			TWADEGOVIE	• L J

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SUBSYSTE MDAC ID: ITEM:	M:		EPD&C 5514 DIODE	, 1	.2A	(TO	RO	cs,	oms/	BC	BU	JS)					
LEAD ANA	LYS	r:	K. SCI	IME	CK	PEPE	R							÷,÷			
ASSESSME	NT:																
CRITICALITY REDUNDANCY SCREENS FLIGHT									CIL ITEM								
	HI	DW/FUN	1C		A			В			С						
NASA IOA	[:	3 /1R 3 /1R]	[[P P]	[F F]	[P P]		[X X]	*
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* CIL RE	ren	rion F	RATION	LE	: ((If a	app	l i	cabl	=.= =		EQUA		[X]	
REMARKS:										IN	IAI	EQUA	TE	[]	

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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5515	PD&C-5515 BASELINE [] 5-6-2902-2 NEW [X]									
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5515 DIODE, 12A (TO	RCS/OMS BC BUS)	:								
LEAD ANALYST:	K. SCHMECKPEPE	R									
ASSESSMENT:											
CRITICAL	CIL ITEM										
FLIGH HDW/FU		В С	****								
NASA [3 /1R IOA [3 /1R	[P] [F]	[F] [P] [F] [P]	[X] *								
COMPARE [/] [N]		[]								
RECOMMENDATIONS:	(If differen	t from NASA)									
j /] []		[] ADD/DELETE)								
* CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE []											
REMARKS: IOA CONCURS WITH NASA'S SCREEN "A". THE REVISED OMRSD PROCEDURES WILL DETECT THIS FAILURE MODE.											

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5516	5	NASA DATA BASELINE NEW	: [x]								
SUBSYSTEM: MDAC ID: ITEM:	5516	(TO RCS/OMS	BC BUS)	11 .142601111								
LEAD ANALYST:	K. SCHMECK	(PEPER										
ASSESSMENT:												
CRITICALI FLIGHT		DUNDANCY SCRE	ENS	CIL ITEM								
HDW/FU		В	C									
NASA [3 /1R IOA [3 /1R] [P] [F] [F]	[P] [P]	[X] * [X]								
COMPARE [/] [N] []	[]	[]								
RECOMMENDATIONS:	(If diff	erent from NA	SA)									
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* CIL RETENTION F	RATIONALE:	(If applicable	•									
	g + · · • •••		ADEQUATE INADEQUATE									
REMARKS: IOA CONCURS WITH WILL DETECT THIS		DE.		D PROCEDURES								

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SUBSYSTE MDAC ID: ITEM:	M:			55		.]	L2 <i>I</i>	Y (TC) F	CS,	/OM:	s BC	: B	US)						
LEAD ANA	LYS	ST	:	ĸ.	SCH	IMI	ECI	(PEPI	ER											
ASSESSME	NT:	:																-		
		F	ICAL: LIGH: W/FUI	r			RI A	EDUNI	DAN	ICY B	SC	REEN	is C	-			CI IT	L EM	Į.	
NASA IOA			/1R /1R]		[P P]	[F]	[P]			[[X X]	*
COMPARE	[/]		[]	Ţ	•]	ļ	•]			[]	
RECOMMEN	IDA'	rI(ONS:		(If	d	if:	fere	nt	fr	om i	nas <i>i</i>	A)							
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SUBSYSTE MDAC ID: ITEM:				5	517	, :	127	A (TC) F	RCS	5/C				JS)					14	٠
LEAD ANA	LY	ST	:	K	. sci	IMI	ECI	KPEPI	ER										٠.,		٠.,
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* CIL RE	TE	NT:	ION I	RAT	rionz	AL	E:	(If	aŗ	pl	lic	cable			DEQUA DEQUA			x			

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ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	:: 1/01/88 EPD&C-5518 05-6-2214-1	NASA DAT BASELIN NE	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5518 SWITCH, TOGGLE	E 3PDT (ESS BUS SOURC	E MAIN C/A
LEAD ANALYST:	K. SCHMECKPEPE	ER	
ASSESSMENT:			
FLIC	- 	DANCY SCREENS B C	CIL ITEM
NASA [3 /:	LR] [P] LR] [P]	[F] [P]	[X] * [X]
COMPARE [/] []	[] []	[]
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* CIL RETENTION	N RATIONALE: (If	applicable) ADEQUATE INADEQUATE	

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SUBSYSTEMDAC ID				55		I,	тc	GGLE	3	PDT	r (ESS	В	JS SO	URCE	MZ	AIN	I C/A)
LEAD AN	ALYS	ST	•	ĸ.	SCE	IME	ECF	(PEPE	R									
ASSESSMI	ENT:	:																
CRITICALITY REDUNDANC FLIGHT						CY	sc	REE	NS.				IL PEM	ī				
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SUBSYSTEM MDAC ID:	i:	EPD&C 5519 SWITC	н, то	OGGL	E 3PD	r (ES	s Bu	s sour	CE MAI	N C/A)
LEAD ANAI	LYST:	K. SC	HMECI	(PEP	ER					
ASSESSMEN	NT:									
C	CRITICA FLIG HDW/F	HT	RI A	EDUN	DANCY B	SCRI	ENS C	* * * * * * * * * * * * * * * * * * *	CII	
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* CIL RET	rention	RATION	ALE:	(If	appl	icab:	P	DEQUAT]

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SUBSYSTE MDAC ID: ITEM:			EPD&C 5520 RESIS	ror,	1.2	K 2W	(TO	ESS	BUS	2CA)			
LEAD ANA	LYSI	r:	K. SC	HMEC	KPEF	ER							
ASSESSME	NT:												
CRITICALITY REDUNDANCY SCREENS FLIGHT										CI TT	L		
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NASA IOA	[3	/1R /1R]	[F))	[P [F]	[]	P] P]		[X] *
COMPARE	[/]	[]	[N]	[]		[N]
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* CIL RE					•		icak		_	JATE JATE	[]
IOA CONC	URS	WITH	NASA'S	S SC	REEN	"B".							

ASSESSMENT DATE: 6/13/87 ASSESSMENT ID: EPD&C-5521 NASA FMEA #: 05-6-2331-1									SA DATA SELINE NEW	[x]				
SUBSYSTE MDAC ID: ITEM:			EPD 552 RES	L	R,	1.2	K 21	y ((TO	ESS	BUS	5 2CA)		74 3		
LEAD ANA	LYST	:	K. :	эсни	ECI	KPEP	ER		- · ·							
ASSESSME	ENT:													-		
	CRIT	ICAL LIGH			R	EDUN	DAN	CY	SCR	EENS	}			IL Per	4	
		W/FU			A			В			С				_	
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COMPARE	Ţ	/]	[]	[N]	[•]	[N]	
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ASSESSME ASSESSME NASA FME	NT]	D:	EPD&C									Junice data
SUBSYSTE MDAC ID: ITEM:			EPD&C 5522 RESIS		5.11	K 1/4	W TO	MDM	OF4			
LEAD ANA	LYST	r:	K. SC	HMEC	KPEPI	ER						
ASSESSME	NT:											
		rical Fligh	ITY	R	EDUNI	DANCY	SCRE	EENS	}		CIL	u r
			NC	A		В	}		C :	ITE	VI.	
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* CIL RE	TENT	ION I	RATION	ALE:	(If	appl	icabl	·	ADEQUAT ADEQUAT		[]
REMARKS:									× ••••	-	_	J

ASSESSME ASSESSME NASA FME	NT II			/87 C-552: -2335		NASA DA BASELI N	NE	[[X]			
SUBSYSTE MDAC ID:	M:		EPD&0 5523 RESIS	E STOR,	5.1	K 1/4	W TO	MDM	OF4			
LEAD ANA	LYST:	:	K. S	CHMEC	KPEP	ER						
ASSESSME	NT:											
	ITY	R	EDUN	DANCY	SCR	EENS			CIL			
		JIGH V/FU		A		E	3		С			•
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/01/88 EPD&C-5524 05-6-2213-1	NASA BASE	DATA: LINE [] NEW [X]							
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5524 SWITCH, TOG	GLE 3PDT (ESS BUS SO	URCE F/C 2)							
LEAD ANALYST:	K. SCHMECKP	EPER								
ASSESSMENT:										
CRITICAL: FLIGHT		UNDANCY SCREENS	CIL							
HDW/FUI		в с	ITEM							
NASA [3 /1R IOA [3 /1R] [P]	[F] [P] [P]	[X] *							
COMPARE [/] []	[и] [ј	[N]							
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* CIL RETENTION I	RATIONALE: (1	If applicable)								
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INADEQUATE [] REMARKS: NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND - FUEL CELL TO ESS BUS CONTACT" TO THIS FMEA. IOA CONCURS WITH NASA'S SCREEN "B".										

ASSESSMEI ASSESSMEI NASA FMEI	II TN	ATE:	1/01 EPD& 05-6	C-5								SA DA BASELI N		[X]	
SUBSYSTEM MDAC ID:	M:		EPD& 5524 SWIT		TC	OGGLE	31	PDT	e (ESS	5 I	BUS	SOUI	RCE	F/	′C	2)	
LEAD ANA	LYST	:	ĸ.s	CHM	ECI	KPEPE	R										
ASSESSME	NT:																
•	F	ICAL LIGH W/FU	r		RI A	EDUND	ANC	CY B	SCRE	EN:	S C				[L	1	
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RECOMMEN	DATI	ons:	(I	f d	if:	feren	t i	fro	om NA:	SA)						
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* CIL RE	TENT	ION	RATIO	NAL	E:	(If	apj	pl:	icabl			DEQUA'		[x]	

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	EPD&C-552				ASA DATA BASELINE NEW		
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5525 SWITCH, I	OGGLE	3PDT (E	SS BUS	SOURCE	F/C	2)
LEAD ANALYST:	к. ѕснмес	KPEPEI	₹				
ASSESSMENT:							
CRITICA FLIG	HT		Ancy scr			CIL ITE	
HDW/F	UNC A		В	С	e e e		
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SUBSYSTE MDAC ID: ITEM:			EPC 552 DIC		скі	:NG							= ::
LEAD ANA	LYST	r:	ĸ.	SCHMEC	KPEP	ER							
ASSESSME	ENT:												
		ricai Fligh		R	EDUN	IDANCY	SCR	EENS			CII		
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REMARKS	:												

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-552	7		NASA DATA BASELINE NEW										
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5527 DIODE, BLO	OCKING	- s.c.; n	* *. d										
LEAD ANALYST:	K. SCHMECI	KPEPER	Survivors Adaptive in the											
ASSESSMENT:														
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C														
FLIGHT														
NASA [3 /1R IOA [3 /3] [F] [F] [P]	[X] *									
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SUBSYSTE MDAC ID:	M:		EPD&6 5528 DIOD		OLAT	'ION (TO M	PCA-C	3 - ESS	BUS	2CA)
LEAD ANA	LYST	:	K. S	CHMEC	KPEP	ER					
ASSESSME	NT:								,		
	CRIT	ICAL LIGH		Ŕ	EDUN	DANCY	SCR	EENS		CI IT	L EM
		W/FU		A		E	3	(2		
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SUBSYSTEM MDAC ID: ITEM:	M:		EPD&C 5529 DIODE	, IS	OLAT:	CON	(Т	O MP	CA-	-3	- ES	S BUS	S 2CA	 .)
LEAD ANA	LYST	:	K. SCI	HMEC	KPEPI	ER ····			- 15 - 5 - 2	· .,.	T 1.5			<u> - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - </u>
ASSESSME	NT:													
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	[/]	[]	[] .	[]	(ADI] D/DEL	ETE)
* CIL RE	TENT	ION I	RATION	ALE:	(If	app	li	cable			EQUAT]	
REMARKS:										-410	-gon.			

ASSESSME ASSESSME NASA FME	NT ID:	6/06/8 EPD&C- 05-6-2	5530				ASA DAT BASELII NI	NE []
SUBSYSTE MDAC ID:		EPD&C 5530 RESIST	OR, 1.8	K 1/4	W (TO	MDM	OF3)		P.
LEAD ANA	LYST:	K. SCH	MECKPEP	ER					
ASSESSME	NT:							T 400 T 400	
	CRITICAL FLIGH		REDUN	DANCY	SCRE	ENS		CII	
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SUBSYSTE MDAC ID:			EPD 553: RES:	1	, 2.2	K 1/2	r) W	O MDI	(OF3)		
LEAD ANA	LYST	r:	к. я	SCHME	CKPEF	ER					
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LEAD ANA	LYST:		K. 5	CHM	ECI	KPEP	ER									
ASSESSME	NT:															
CRITICALITY REDUNDANCY SCREENS FLIGHT														CIL		
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SUBSYSTE MDAC ID:			EPD&C 5533 RPC,		TO M	IDCA :	‡2 - 1	ESS I	BUS 2CA		
LEAD ANA	LYSI	?:	K. SC	HMEC	KPEP	ER		*			
ASSESSME	NT:										
		'ICAL 'LIGH'		R	EDUN	DANC	SCR	EENS		CII	
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	[/]	[]	• []	[[ADD/E] DELETE)
* CIL RE	TENT	I NOI	RATION	ALE:	(If	appl	.icab	A	DEQUATE]
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ASSESSME ASSESSME NASA FME	NT I		6/04 EPD8 05-6	C-5	534							SA DAT ASELIN NE			[]	
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ASSESSMI	ENT:															
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ASSESSME	NT:												
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/04/87 EPD&C-5538 05-6-2187-	BASELINE []								
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5538 DIODE, ISO	LATION (TO	MPCA-1 - ESS	BUS 2CA)						
LEAD ANALYST:	K. SCHMECK	PEPER								
ASSESSMENT:										
CRITICAL: FLIGHT HDW/FUI	r	DUNDANCY S	CREENS C	CIL						
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	EPD&C 5539 DIODE, ISC	C) NOITALC	ro mpo	A-1 - ESS	BUS	2CA)						
LEAD ANALYST:	K. SCHMECE	KPEPER										
ASSESSMENT:												
CRITICAL: FLIGHT			SCREE	NS	CI IT							
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SUBSYSTE MDAC ID: ITEM:			EPD&C 5540 DIODE	, BL	OCKIN	īG							
LEAD ANA	LYST:		K. SC	HMEC	KPEPE	ER							
ASSESSME	NT:												
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K. SCHMEC	KPEPE	R						
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SUBSYSTEM: MDAC ID: ITEM: 2CA)	EPD&C 5543 DIODE, IS	OLATION 35A	(TO RIAL PAN	IEL - ESS BUS						
LEAD ANALYST:	K. SCHMEC	KPEPER								
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/15/87 EPD&C-554 05-6-2186			NASA DATA BASELINE NEW	
	EPD&C 5544 DIODE, IS	OLATION	35A (ESS	BUS 2CA)	
LEAD ANALYST:	K. SCHMEC	KPEPER			
ASSESSMENT:					
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	MDAC ID: 5545										
LEAD ANALYST:	K. SCHMEC	KPEPER									
ASSESSMENT:											
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LEAD ANA	LYS	T:	:	K. SCH	MI	ECI	KPEPE	R									
ASSESSMENT:																	
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SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5549 DIODE, ISOL	ATION 35A (ES	S BUS 2CA)	e e e e e e e e e e e e e e e e e e e				
LEAD ANALYST:	K. SCHMECKP	EPER						
ASSESSMENT:								
CRITICALI	·	UNDANCY SCREE	ns	CIL				
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	EPD&C 5550 FUSE, 10A	TO ESS B	US 2CA		
LEAD ANALYST:	K. SCHMECE	KPEPER			
ASSESSMENT:					
CRITICAL: FLIGHT HDW/FUI	T	edundancy B		G	CIL ITEM
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LEAD ANALYST:	K. SCHMEC	KPEPER			
ASSESSMENT:			र तत्व इ.स.		
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SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5552 FUSE, 7	7.5A			
LEAD ANALYST:	K. SCH	ECKPEPE	R		
ASSESSMENT:					
CRITICA FLIG	HT		ANCY SCE		CIL ITEM
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SUBSYSTE MDAC ID:			EPD&C 5553 FUSE,	3 A '	TO S	IG CO	ND/M		ONITOR		142-214		
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	1/01/88 EPD&C-5554 NEW # UNKNO	OWN		NASA DATA: BASELINE NEW									
MDAC ID:	EPD&C 5554 FUSE, 15A	ro apca-5	i										
LEAD ANALYST:	K. SCHMECKI	PEPER	'										
ASSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM													
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LEAD ANALYST:	K. SCHME	CKPEPER	. 222							
ASSESSMENT:										
CRITICAL FLIGH		REDUNDANCY	SCREENS	CIL ITEN	4					
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* CIL RETENTION	RATIONALE	: (If appl		QUATE []					
REMARKS:				QUATE [j					

ASSESSME ASSESSME NASA FME	ENT	I	D:	6/06/87 EPD&C-5557 05-6-2276-1							NASA DATA: BASELINE [] NEW [X]							
SUBSYSTE MDAC ID:				EPD&C 5557 FUSE,	15	5 A	то	MPC	:A-	2								
LEAD ANA	LY	ST	:	K. SCH	IMI	ECI	KPE	PER			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							. •
ASSESSME	ENT	:																
		F	LIGH	r				NDAN			CREENS				CI IT		[
	J	HD	W/FUI	1C		A			В			C						
NASA IOA	[2 3	/1R /1R]	[P P]	[P F]	[[P P]		[X X]	*
COMPARE	[N	/]	[]	[N]	[]		[]	
RECOMMEN	IDA:	ri	ons:	(If	đi	lff	fere	ent	fr	om	NASA)				-			
	[/] .	[.]	[,]	[]		[D/			TE)
* CIL RE	TEI	T	ION F	RATIONA	LE	E :	(11	f ap	pl.	ica	·			ATE	[]	
REMARKS: IOA CONC CONCERNS	UR	5 1	WITH	NASA'S	F	EE	EVAI	LUAT	'IO	N I			-		•		IN.	G

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5	5558	NASA DATA: BASELINE [NEW [X				
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5558 FUSE,	10 A TO	FPCA-2 & F	LCA-2			
LEAD ANALYST:	K. SCH	MECKPE	PER				
ASSESSMENT:							
CRITICAI FLIGH		REDU	NDANCY SCRE	ENS	CIL ITEM		
HDW/FC		A	В	С			
NASA [3 /11 IOA [3 /11	R]	[P] [P]	[NA] [F]	[P] [P]	[x] *		
COMPARE [/]	[]	[N]	[]	[и]		
RECOMMENDATIONS	(If	differ	ent from NA	.SA)			
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* CIL RETENTION REMARKS:	RATIONA	LE: (I	f applicabl	e) ADEQUATE INADEQUATE			
IOA CONCURS WITH	H NASA'S	SCREE	и "в".				

ASSESSMEN ASSESSMEN NASA FMEA	T I	D:		-555	9 -1						DATA ELINE NEW	г	x]	
SUBSYSTEM MDAC ID: ITEM:	[:		EPD&C 5559 FUSE,	10A	TO	013	&	R15	PAN	iels					
LEAD ANAL	YST	:	K. SCH	IMEC:	KPEP	ER								<u>.</u>	
ASSESSMEN	T:														
c			[TY	R	EDUN	DANG	CY	SCRE	EENS	5		C]			
		LIGHT W/FUI		A			В			С		17	E	1	
NASA IOA	[3	/1R /1R]	[P]	[P F]	[P] P]		[x]	*
COMPARE	[/]	[]	[N]	[]		[N]	
RECOMMEND	ATI	ONS:	(If	dif	fere	nt i	fro	om NA	SA)		111		ng a n		
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-556	0 - 1		NASA DATA: BASELINE NEW	
MDAC ID:	EPD&C 5560 FUSE, 7.5	A			
LEAD ANALYST:	K. SCHMEC	KPEPER	e e	-	
ASSESSMENT:					
CRITICAL: FLIGHT	TY R	EDUNDAN	CY SCREE	NS	CIL ITEM
HDW/FU			В	С	
NASA [3 /1R IOA [3 /1R] [P] [F] P]	[P] [P]	* [X]
COMPARE [/] [] [и ј	[]	[и]
RECOMMENDATIONS:	(If dif	ferent	from NAS	A)	
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* CIL RETENTION :	RATIONALE:	(If ap	plicable) ADEQUATE INADEQUATE	[x]
IOA CONCURS WITH	NASA'S SC	REEN "B	H .		

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	6/19/87 EPD&C-5561 NOT FOUND	L		NASA DATA BASELINE NEW		
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5561 RESISTOR,	5.1K 1/4V	W (TO E	SS 2CA MON	(ITOR)	
LEAD ANALYST:	K. SCHMECH	KPEPER				
ASSESSMENT:						
CRITICALI FLIGHT		EDUNDANCY	SCREEN	S	CIL ITEM	
	IC A	В		C	TIEM	
NASA [/ IOA [3 /3] [] [] []]	[]	*
COMPARE [N /N] [] [j (]	[j	
RECOMMENDATIONS:	(If diff	erent fro	om NASA)	. :	e Baran de Perenagan
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* CIL RETENTION F	RATIONALE:	(If appli	·	ADEQUATE NADEQUATE	[]	
REMARKS: THIS COMPONENT HA POINT. THEREFORE CONCURS.						TEST IOA

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/19/87 EPD&C-556 NOT FOUND	2				ASA DA BASELI N]	
	EPD&C 5562 RESISTOR,	5.1K	(ES	s Bus	2CA	TEST	POINT)		
LEAD ANALYST:	K. SCHMEC	KPEPE	R						
ASSESSMENT:									
CRITICAI FLIGH	LITY R	EDUND	ANCY	SCRE	ENS		CII ITE		
HDW/FU			В		C	!			
NASA [/ IOA [3 /3] []	[]	[]]]	*
COMPARE [N /N] []	C]	[]	[]	
RECOMMENDATIONS:	(If dif	feren	t fr	om NA	SA)				
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* CIL RETENTION	RATIONALE:	(If	appl	icabl	7	LAUQUAT LAUQUAT	E []	
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ASSESSMI ASSESSMI NASA FMI	ENT	I		EPD	6/87 &C-55 6-248				·		DATA ELINE NEW	[x]
SUBSYSTEMDAC ID:				EPD 556 HYE	3	RIVE	R TYPE	EI (ESS	BUS	2CA)		
LEAD ANA	LY	ST	:	ĸ.	SCHME	CKPE	PER						
ASSESSMI	ENT	:											
	CR		ICAI LIGH		in a chi in, c		IDANCY				.* ± 3	CI	
	1			NC		A	E	3	(С			
NASA IOA	[3 3	/3 /3]	[[]	[]	[[]		[[] *
COMPARE	[/]	Ţ]	ľ]	[]		[]
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	. [/]	[]	[]	[]] DELETE
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REMARKS:	;								T147	ZULQ	OMIL	L	J

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	6/06/87 EPD&C-5564 05-6-2482-			NASA DATA BASELINE NEW	[]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5564 HYBRID DRI	IVER TYPE	I (ESS	BUS 2CA)		
LEAD ANALYST:	K. SCHMECE	KPEPER				
ASSESSMENT:						
CRITICAL FLIGH		SCREEN	rs .	CII		
HDW/FU	NC A	В		С		
NASA [3 /3 IOA [3 /3] [] [] []	[]] *
COMPARE [/] [] [] []	[]
RECOMMENDATIONS:	(If dif	ferent fr	om NASA	7)		
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REMARKS:	million at the state of the sta		-		L	J

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SUBSYST MDAC ID ITEM:				EPD 556 RPC	2	(TO	ESS E	BUS 2	CA)	View of Co.				
LEAD AN	ALY	ST	:	K.	SCHMEC	KPEI	PER	*						-
ASSESSM	ENT	:												
	CR			LITY	R	EDUI	NDANCY	SCR	EENS			C]		-
	1		LIGH W/FU		A		E	3	(2		1.1	EM	L
NASA IOA	[3 3	/3 /3]	[]	[[]]]		[] *
COMPARE	[/]	[]	[]	[]		[]
RECOMME	NDA'	ΤI	ons:	: (If dif	fere	ent fr	om N	ASA)					
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REMARKS	:										-	L		,

ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #:				NASA BASE	DATA: LINE [NEW [x]
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5566 RPC, 15A	(TO E	ss Bus	2CA)		
LEAD ANALYST:	K. SCHME	CKPEPE	ER			
ASSESSMENT:						
CRITIC	ALITY GHT	REDUNI	ANCY SC	REENS		ŤL PEM
		A	В	C		
NASA [3 /	3] []	[]	[]]] *]
COMPARE [/] []	[]	[]	[]
RECOMMENDATION	s: (If di	ifferer	nt from	NASA)		
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* CIL RETENTION REMARKS:	N RATIONALI	E: (If	applica	able) ADEQU INADEQU]

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SUBSYSTE MDAC ID:				EPD 556 DIO	7	OLAT	rion 3	35A (TO E	s Bus	2CA)	2 ^{eta} - 1 2 2	
LEAD ANA	LY	ST	:	к.	SCHMEC	KPEI	PER						
ASSESSME	ENT	:											
CRITICALITY REDUND FLIGHT						NDANCY	SCR	EENS		CI	IL TEM		
	1		V/FU		A		E	3	(SM.	
NASA IOA	[3	/3 /3]	[]	[]	[_	[] *	
COMPARE	[/]	[]	[]	[]	[]	
RECOMMEN	DA:	ric	ons:	(:	rf dif	fere	ent fr	om N	ASA)				
	[/]	[]	[]	ί		[(ADD/I] DELETE	,
* CIL RE	(TE)			RATIO	ONALE:	(If	appl	icab.	I	DEQUATI	-]	
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			BASELINE	[]
EPD&C 5567 DIODE, ISO	LATION 35	A (TO ESS	BUS 2C	A)	
K. SCHMECK	PEPER				
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NC A	В	С			
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(If diff	ferent fro	om NASA)			
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RATIONALE:	(If appl:	A		(X]
	EPD&C-5567 05-6-2191- EPD&C 5567 DIODE, ISC K. SCHMECK ITY RE ITY R ITY	EPD&C-5567A 05-6-2191-3 EPD&C 5567 DIODE, ISOLATION 35 K. SCHMECKPEPER ITY REDUNDANCY INC A B [P] [F] [P] [F] [J [(If different from the second secon	EPD&C-5567A 05-6-2191-3 EPD&C 5567 DIODE, ISOLATION 35A (TO ESS K. SCHMECKPEPER ITY REDUNDANCY SCREENS INC A B C [P] [F] [P] [P] [F] [P] [I] [I] [I] [I] (If different from NASA)] [] [] [] RATIONALE: (If applicable)	EPD&C-5567A 05-6-2191-3 EPD&C 5567 DIODE, ISOLATION 35A (TO ESS BUS 2CA K. SCHMECKPEPER ITY REDUNDANCY SCREENS INC A B C [P] [F] [P]	EPD&C-5567A 05-6-2191-3 EPD&C 5567 DIODE, ISOLATION 35A (TO ESS BUS 2CA) K. SCHMECKPEPER ITY REDUNDANCY SCREENS CIL ITEN NC A B C [P] [F] [P] [X] [P] [F] [P] [X] [P] [F] [P] [X] [MIC A B C [P] [F] [P] [X] [P] [F] [P] [X] [P] [F] [P] [X] [P] [P] [X] [P] [P] [X] [P] [P] [P] [X] [P] [P] [P] [X] [P] [P] [P] [X] [P] [P] [P] [P] [X] [P] [P] [P] [P] [X] [P

ASSESSMENT ID:	6/04/87 EPD&C-5568 05-6-2191-2		: [] [x]
- 4	EPD&C 5568 DIODE, ISOLATION	35A (TO ESS BUS 2CA	
LEAD ANALYST:	K. SCHMECKPEPER	nen 2005 anven 1900 August 1905 en benedt. De	-1
ASSESSMENT:			
CRITICALI FLIGHT		CY SCREENS	CIL ITEM
HDW/FUN	IC A	ВС	
NASA [3 /1R IOA [3 /3] [F] [] [] [F] [P]	[X] * []
COMPARE [/N] [N] [и ј [иј	[N]
RECOMMENDATIONS:	(If different f	rom NASA)	
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* CIL RETENTION R	NATIONALE: (If app	olicable) ADEQUATE INADEQUATE	[X]
REMARKS: IOA CONCURS WITH OF THE PREFLIGHT		ERNS ABOUT INADVERTE	NT POWERING

	: 6/04/87 EPD&C-5569 05-6-2191-	569 BASELINE []						
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5569 DIODE, ISC	OLATION 35A	(TO ESS BUS 2	CA)				
LEAD ANALYST:	K. SCHMECH	KPEPER						
ASSESSMENT:								
CRITICA FLIG		EDUNDANCY SO		CIL ITEM				
HDW/F	UNC A	В	С					
NASA [3 /1 IOA [3 /3	R] [F] [F]] []	[P] []	[X] * []				
COMPARE [/N] [N] [N]	[N]	[N]				
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* CIL RETENTION	RATIONALE:	(If applica	able) ADEQUATE INADEQUATE					
REMARKS: IOA CONCURS WIT		TO CONCERNS	ABOUT INADVER	RTENT POWERING				

ASSESSME ASSESSME NASA FME	TK	I	D:	EPD	&C-55	-5570 BASELINE [] x]
SUBSYSTE MDAC ID: ITEM:				EPD 557 DIO	0	[SOLA]	rion :	35A (SS BU	JS 2C	A)	
LEAD ANA	LYS	ST	:	ĸ.	SCHMI	ECKPEI	PER			-			
ASSESSME	NT	:											
	ICAI LIGH			IDANC'	Y SCR	EENS			CI				
	I					A]	В	(С		111	-M
NASA IOA	[3	/3 /3]] []	[]	[]]] *
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RECOMMEN	DA'	ric	ONS:	(If di	ffere	ent fi	rom N	ASA)				e e e e e e e e e e e e e e e e e e e
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REMARKS:												_	•

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	12/17/87 EPD&C-5570 05-6-2191-						
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5570 DIODE, ISC	OLATION 35	5A (TO E	SS BUS 2CA	7)		
LEAD ANALYST:	K. SCHMECK	KPEPER					
ASSESSMENT:							
CRITICAL: FLIGHT HDW/FUI	r	EDUNDANCY B		c	CIL ITEM		
NASA [3 /1R IOA [3 /1R] [P]] [F] [P] P]	[X] *		
COMPARE [/] _ []	[]		
RECOMMENDATIONS:	(If diff	ferent fro	om NASA)				
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* CIL RETENTION	RATIONALE:	(If appl:		ADEQUATE ADEQUATE	[X]		
REMARKS:							

ASSESSME	SSESSMENT DATE: 6/19/87 SSESSMENT ID: EPD&C-5571 ASA FMEA #: 05-6-2335-1								NASA DATA: BASELINE [] NEW [X]						
SUBSYSTE MDAC ID:				EPD& 5571 RESI		, 5.1	.K (ES	SS BU	is 2C	A VOLTAG	E)				
LEAD ANA	LY	ST	:	K. S	CHME	CKPEP	ER	: + t+ .		<u>.</u>	,				
ASSESSME	NT	:													
	CR			ITY	1	REDUN	DANC	SCR	EENS		CII				
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SUBSYSTE MDAC ID:			55		7.	. 52	A TO) AL	CA:	-2	(MPS	;)						
LEAD ANA	LYST	:	ĸ.	SCF	IMI	ECI	KPEP	ER										
ASSESSME	NT:																	
	CRIT	ICAL LIGH				RI	EDUN	IDAN	CY	sc	REEN	IS				IL Tem	1	
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NASA IOA	[3	/1R /1R]		[P P]	[F F]	[[P]		[[X X]	*
COMPARE	ι	/]		[]	[]	(•]		[]	
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VELIMINO	•																	

ASSESSME ASSESSME NASA FME	NT	ID:	12/08/ EPD&C- 05-6-2	-55					ASA DA BASEL		[x]
SUBSYSTE MDAC ID:			EPD&C 5573 RESIS	ror	, 1.	2K 2V	1 (TO	APCA-	5)				
LEAD ANA	LYS	T:	K. SCI	HME	CKPE	PER							
ASSESSME	NT:												
		TICAL		1	REDU	MDANG	cy sc	REENS			CI		-
		FLIGH DW/FU	_	;	A.		В	С			1.1	EM	1
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REMARKS:								THUI	ALCON.		ι		J

ASSESSME ASSESSME NASA FME	NT ID:	EPD&C-55	73A								
SUBSYSTE MDAC ID: ITEM:		EPD&C 5573 RESISTOR	, 1.2	K 2W	(TO A	APCA-	-6)				
LEAD ANA	LYST:	K. SCHME	CKPEP	ER							
ASSESSME	NT:										
	CRITICAL FLIGH		REDUN	DANCY	SCRI	EENS	•		CIL		
	HDW/FU		A	В	}	(2			•••	
NASA IOA	[3 /3 [3 /3] []	[]	[[]		[]] *]	
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RECOMMEN	DATIONS:	(If di	ffere	nt fr	om N	ASA)					
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* CIL RE		RATIONALE	: (If	appl	icab:	1	ADEQU <i>A</i> ADEQU <i>A</i>]	
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ASSESSME	ASSESSMENT DATE: 6/06/87						NASA DATA:							
ASSESSME NASA FME	NT I	D:	EPD&	PD&C-5574 BASELINE [5-6-2652-1 NEW [[[X]			
SUBSYSTE MDAC ID:			EPD& 5574 SWIT		roggi	Æ SPS	T (A	FT P	OD VLV	, roc	GIC 6	RP 2/3		
LEAD ANA	LYSI	r:	K. S	CHME	CKPEP	ER								
ASSESSME	NT:													
		rical Light		1	REDUN	IDANCY	SCR	EENS		-	CIL	.		
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* CIL RE	TENT	rion 1	RATIO	NALE	: (If	appl	icab		ADEQUA ADEQUA		[X]		
REMARKS:														

ASSESSME ASSESSME NASA FME	ID:	6/06/ EPD&0 05-6-	C-557		NASA DATA: BASELINE [] NEW [X]							
SUBSYSTEMDAC ID:	M:		EPD&0 5575 SWITC		OGGL	ST (A	FT PC	D VLV	LOGIC	GRP 2/3)		
LEAD ANA	LYS	T:	K. 50	CHMEC	KPEP	ER						
ASSESSMENT:												
CRITICALITY REDUND FLIGHT HDW/FUNC A							SCR	EENS	•	CIL ITEM		
	п	DW/FU	NC				•		•			
NASA IOA	[3 /3 3 /3]]]]]	[]	[[] *	
COMPARE	[/]	[]	[]	ĺ]	Ţ]	
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REMARKS:

ASSESSME ASSESSME NASA FME	NT ID	•		-557				1	VASA DATA BASELINE NEW		
SUBSYSTEMDAC ID:	M:		EPD&C 5576 RPC, 5	5 A (TO RO	CS/OM	S CA 1	BUS)			
LEAD ANA	LYST:		K. SCI	IMEC	KPEPI	er	. *			.=	
ASSESSME	NT:										
•		IGHT	?	R	EDUNI	DANCY	SCRE			CII ITI	
	HDW,	/FUN	IC	A	,	В		(
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REMARKS:								4.141	Aout	L	1

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SUBSYSTEM MDAC ID:	M:	EPD&C 5577 RPC,		TO R	cs/om	S CA	BUS)			
LEAD ANA	LYST:	K. SC	CHMEC	KPEP	ER		***	•		
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ASSESSMENT WORKSHEET

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:				EPD	kC-	55	78							ASEL		[x]	
SUBSYSTEM: MDAC ID: ITEM:			EPD&C 5578 DIODE, 12A (TO RO					CS,	'OMS	CA	BU	IS)							
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	EPD&C-5579		NASA DATA: BASELINE NEW						
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5579 DIODE, 12A	(TO RCS/OMS CA	A BUS)						
LEAD ANALYST: K. SCHMECKPEPER									
ASSESSMENT:									
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REMARKS: IOA CONCURS WITH NASA'S SCREEN "A". THE REVISED OMRSD PROCEDURES									

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SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5580 DIODE, 12A (TO RCS/OMS CA	BUS)							
LEAD ANALYST:	K. SCHMECKPEPER								
ASSESSMENT:									
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SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5582 DIODE, 12A (T	o RCS/OMS	AB BUS)	
LEAD ANALYST:	K. SCHMECKPER	PER	-	
ASSESSMENT:				
CRITICAL		DANCY SCRE	EENS	CIL
FLIGHT HDW/FUN		В	Ç a	ITEM
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SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5582 DIODE, 12A	(TO RCS/O	AS AB BUS)	
LEAD ANALYST:	K. SCHMECK	PEPER		
ASSESSMENT:				
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SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5583 DIODE, 12A (TO RCS/OM	S AB BUS)	 						
LEAD ANALYST:	K. SCHMECKPEPER	man de la companya de la companya de la companya de la companya de la companya de la companya de la companya d	177 J.23						
ASSESSMENT:									
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	EPD&C 5584 DIODE, 12A (TO	RCS/OMS AB BUS)	
LEAD ANALYST:	t .		
ASSESSMENT:			
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LEAD ANALYST:	K. SCHMEC	KPEPER		
ASSESSMENT:				
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	EPD&C 5585 DIODE, 12A	(TO RCS/C	OMS AB BUS)					
LEAD ANALYST:	K. SCHMECK	K. SCHMECKPEPER						
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LEAD ANALYST:	K. SCHMECKPI	EPER	***************************************	g and the second				
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